

Lord and Lady Denaing chat with Mr John Pomberton, librarim, after the opening of the Denning Low Library at the University College at Buckingbaio.

Lord Denning sees new library as aid to rule of law

Members of the legal profession were urged by Lord Denning, Master of the Rolls, this week in give their support to the new Denning Law Library of University College, Borkinghan.

He was speeking at the official opening of the library. The majority of 160 students of the private rollege study low, and morthin half ore from overseas, Lord Denning said that law had lways etood for the freedom of the individual against the authority of the stata and other powerful bodies. Tho legal profession should dedirate likelf to the wellbeing and expansion of the library was porticularly important during this.

Languages and sciences link is recommended

porary language.

In schools and commerce there
part says.
On sixth-form examinations. In schools and commerce there is increused demand for graduotes with two modern lunguages, which a universities would do well to meet. Some university departments also lock o rigorous study of the modern world in its economic, social and political dimensions, the report

adds.
The working party, which has been attidying madern languages in secondary and higher education in the East Midhads, was set up lost September under the chalmanship of Professor R. II. Tate, of the faculty of arts of Nortingham University.

Its nim was to disruss the changes toking plare by modern language teachig at all levels. It met madern

Language departments in traditional miversities should after more jaint language courses and the chance to study languages with science projects, o working party hos recummended.

In a report published this werls, there should be a more should be a more should be a more language which works in favour aftechnologically-based universities.

The way should area studies be alternative to alternative to the should be a should be a market and the should be a shoul

which works in favour at feeting lagically-based universities. In no way should area studies be regarded as an alternative to modern language courses, the reon a vusi scale in bride, with the problems of set

says students should be tested ut least in skills of reuding at the level of good janualism; and prolevel of good jaurnalism; and pro-firlency un everyday topics; writing in the language at the level pre-scribed in A levels; listening com-petate, in their knowledge and un-derstanding of an uspect of the culture of the cumulty where the longuage is spaken.

On the literary content of rourses

longuage is spiken.
On the literary content of rourses a number of members of the working party shight the strong literary.

Ile said: "Forty press." a number of members of the tourising party thinght the strong literary hias of most present sixth-form runress und Gralde. Where literation British and taken some ture continued to be taught there the previous two week at the previous two week at the corn had taken a trail antidepressant or sleeps of and all these had been got

teachig at all levels. It met anadern language advisers from nearby counties, headmasters and teachers from loral schools and lecturers from universities in the oren and from Trem Polytechnic.

Some of the enneerns which prompted the setting up of the workin aporty were the decline of languago tearling, other than applications to most modern lansity.

The continued to be taught there should be more emphasis on literary work, and less on literary analysis.

The report neges the full resource in by head authorities of the insistant "scheme, by which temperature spend time in schools in officer countries and vice versa.

"Meen Languages: School and ligher Education." From Faculty of Education, Nottingham University.

neressary to give us pagetile cheerfulness, and a got Propaganda from he gain over the counter medical laspiria was persuaded he that they "are appointed union moud swings checked life." Yet the order they was to character they do not he day. ness of the body's on the and of administered in

ky u ductor."

The British Associat meeting-CLIVE

COOKSON reports

Drugs 'prescini

for pollution!

and are causing quite as internal pollution", b

Warhurton, reader in path Reading University, 1982; rinlogy section.

sumption—running at the

sleeping pills, tranquille

medication of least one 14

Doctors were so willing

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ther were really needed for Washinton suggest many dactors wrote or re-tious as a substitute for set-ting with their puleus ciderly are particularly upon therein to namy are lonely dependent on the name of the front sleeplesses. I need time and attention not zero, then, but the decrease keeping the appears that "

P. C. Roborts, in charge of range of research for the Government, told a symposium on claip progress research and social progress.

Mr Roberts said bis team at the Mr Roberts said bis team at the Systems Anolysis Research Unit be supplied as much more sophists a produced a much more sophists. Mr Roberts Sand Research United Systems Anolysis Research United Sanding Produced e much more Sanding eated model, know has called included the sanding that generated less dramatic fundir that generated less dramatic fundir "There is no widespread dramatic collapsa in the early decades of next econury."

Instead of extrapolating particular prosent fronds, SARUM took in prosent fronds, SARUM took in prosent for human adeptability account of human adeptability account of human adeptability in the counter of human adeptability

any. The decado saw planning the three on higher education, the three on higher education, the three ductures say, etting the stablishment of the pulytechnics, to drawn from this experience is a shigh politics of confrontation—sek to impose what look to be most railoud to see expected to benefit from the politics of the say of the most railoud solutions on three the most railoud to be seen the politics of negotiation in

Politics of negotiation in he intended heneficiaries osuls for rotorm.

DES threatens to intervene over in-service failure general Improvements in the teach-

THE TIMES

dent with two A levels to fill education for for could be achieved through initial provision had also declined. This emphasized the nerd to ruise the efficiency of teachers.

"In looking for survings in the present communic elimate some local authorities may be tempted to think that in-service training can be proposed without damage. That view is mistaken, over dangerous. The country is making greater demands on the education which is one of the keys in mahonal regeneration.

dent with two A levels to fill education degree rourses. With the unusual clearing house carried adjusted the service training in the carried for late viscancies launched this wrek, most colleges are fiding themselves between 15 and 20 per cent short of their targets. Typical figures quoted this week include 105 recruited out of a target of 115 at the College of Sr Marck and St Julia, Plymonth; 100 out of 120 at Corentry College of Education; 135 out of 1160 at Madeley in Staffordshire; 86 out of 100 at Cadgute; and 71 out of 85 keys in unfonal regeneration future prosperity," said Mr

Therefore, if local authorities seem moviling or unable or apply the scale of resources necessary for ing the Government may well have to consider some form of acreer funding for this work to give it the consider some form of direct jarbirity it sequires."

spend more amoney on it. R twos, he added, vital to the nearment and improvement of the education system.

"Within the total of just under 47,000 tracher training places planned for 1981, provision has keen made for 1981, provision has keen made for resources equivalent to inservice training of all kinds," said Mr. Oakes.

About hall the 300,000 serving songraduate nucleus had only two year's training, he added. Since ealy our in four teachers were The unraction of the teaching

non-radiate nucleus had only two cotion year's training, he nolded. Since experte only our in four teachers were Call Colleges of education are finding

Study predicts dismantling of binary barrier

The barriers between universities, polytechnics and colleges are likely to be dismantled over the next few pears. fear, acturding to predictions made by three livids, deducationists for an American sucvey.

An unpublished study, Purposes.

The Gorceoment will be forced to introduce a system of direct final-ing for in-survice teacher training if

ing for in-sorvice teacher framing in local authorities refuse to allocate the necessary resources for this important area, Mr Gordon Oakes, Minister of State overseoing higher

eduration, warned this week.

In a speech n withe future of Britain's tearhers he said that if local authorities decided that in-service training round be pruned it would

be a dangerous and mistaken plala

. Mr Dakes, speaking at a National

Union of Students conference in Ediaborgh, said that the quality of

teachers was now dependent on the teaching force's ubility to extend

and reinforce skills an dipressure for

priority to the exponsion of in-serving training and planned or spead more miney on it. It was, he added, viral to the maintenance and improvement of the education sys-

Government attached high

An unpublished study, Purposes, Policies and Prospects, rambished by the International Council for Educational Development in New York suggests that distincts between the various ports of higher education are going to disappear. The binary line separation unliversities and polytechnics will be progressively bluoted. The anthors of the study, Prolesor Maurice Kogan of Brunel solversity, Professor Tony Beehet solversity and Mr Jack solversity and ke century as the higher education of the

such as milletions, such as university and polyrechales, are shullar the stilles and vultues held by the stilles, the study says.

It reviews higher education planting the 1960s unfavourably, the 1960s unfavourably.

The decade say planning the the on higher education

Multiplicity of maths courses criticized

by Clive Coulson

The undriplicity of A level mathe maries syllabuses with almost in common content set by the examining boards in Britain causing serious problems for univer

sity antheorates , engineering and physics departments, Professor John Crank, vice-princhad of Brunel Halversity, claimed in the Hritish Association meeting this week.

He add the BA unathematics sertion that General Certificate of Education boards had more than 50 different numbernatics syllabuses. They should remedy this by immalicing a common rote of traditional mathematics luto all A level syllabuses. There was, he added, a surprising measure of agreement in universities about when the core should contain. Orber colleges, such as Hubitershe in Reading and St Martin's in Lac-caster, said that they were runing above their turgets. Nearly all rulthey their furgets. Nearly all rul-leges contacted were confident that they would ultimately come very close to meeting their targets. But several expected some shortfull on recruitment to BEd rourses. They said that an unexpectedly high pro-partion of caudidates had falled to achieve the conditional offer no-gets that they had been set. should contain.

should contain.

"Not only do the syllnlerses differ or by stress un different approaches but an A level uworded on one syllnlers is no guarontee that a readidate is competent in any given tople in that syllabus. A situation can arise where two candidates with A levels from the same board have almost no knowledge in common." gets that they had been set.

None of the codeges were able to report any improvement in retruit-ment to specialist shortage subjects, such as marts, physical science and handicraft. One principal said that, in the light of reduced target figures for next year, many col-leges might deride to close their science departments, thus leaving Professor Crank, head of marks : the country permanutly short of facilities for training science tea-

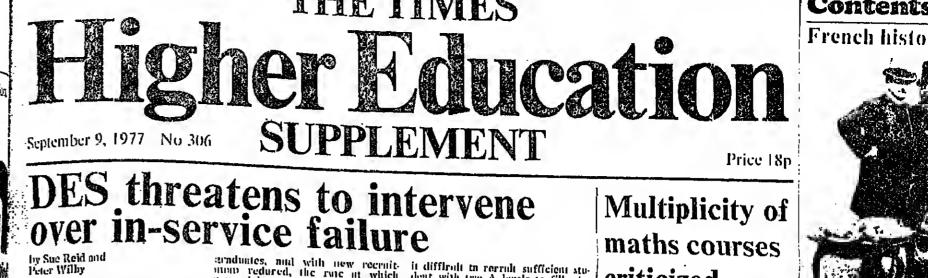
frunces. Crabe, lead of made at frunces. Proceed: "The problem facing maths deportments is formidable. There is not the time in a university cause to cover every regulred A level topic ngain on dsu some kind of compromise has to be employed."

Some muths departments assumed all entrants had a vensuable knowledge of certain topics, while knowling this was not actually the case, and used the us a base. The 20 per cent of students who were not well versed by the trades eventually usked versed he the toples eventually asked for help and were given reading lists and extra tuitlon.

"Other universities, including liranel, give all entrants a test in their first weeks and compet those with serious gops in their knowledge to attend remedial courses.

ledge to attend remedial courses.

"But hath approaches start to bruk down when more than 20 per rent are definicat in some ospect required in the first year. It is then nocessory to water down the undergraduote course to fit in topira that should have been covered in the sixth furm."



John Weightman review Theodore Zeldin's France 1848-1945 - Intellect, Taste ind Anxiety, 14

Clive Cookson examines the DES statistical record which will provide information about two million students in further education, 6

William Beveridge

David Walker talks to José Harris author of a full-scale biography of William Beveridge, 6

Engineering education

Stanley Hutton and Peter Lawrence of Southampton University question whether the British Association report on engineering education went far enough, 7

Research park

Leader page 12 | Michael Binyon visits Research Triangle Park in North Carolina which houses research laboratories of some of the most prestigious organizations in the US:

والمراهد والمستناء المستناء المستناء	3-0-20. \$1. F.
Noticeboerd	. 4
Don's dlary	5
Letters	5, 12
North American news	10
Overseas neivs	11
Beoks	14-17
Clossified index	ใช

More health and safety courses entry closes to be urged at TUC by David Walker A bigger role for further education colleges in training for health and safety at work will be urged at the TUC next week by the National Association of Toebers in Further and Higher Education. Burston advantage to the decade of the Association of Toebers in Further and Higher Education. Burston advantage to the test of the te

Further Education.

Further oducation teachers still hope to persuade the TUC, meeting of Blackpool, to adopt a proper of the Hoalth and Safety at Work Act. Their metion calls for mare training courses, barter opportunities for workers to have time off to study aspects of the new low, and fuller comperation between trade esroblished under the Act.

Concern about the future of further to the total calls for the various committees and for the various committees and for the restriction of the mode for the public sector and the coelers. They call for an end to the system of cash limits and its purelysis of research in the system of restriction of the system of the system of the system of coelers. They call for an end to the system of restriction of the system of cash limits and its purelysis of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents. They call for an end to the system of resolution of recollents.

Concern about the future of further education colleges is reflected in another submission by the NATFHE to the TUC. It asks for TUC pressure on the Government to ensure that despite the run down of teocher training full use is made of the places released, especially in providing educational changes for girls and trongen.

The main focus of text tweek's moeting of the TUC will be on uncomployment, and particularly uncomployment among school-leavers and yung people. Debate will revolve around a long motion from the National Union of Teachers which urges the Government to take a "comprehensivo" view.

The teachers ask for mandatory which urges the Government to take a "comprehensive" view.

The teachers ask for mandatory maintenance allowances for all who wish to stay on et school or go to collegos after the age of 16. For these there should be dev-release schemes and job graining. To do

The teachers ask for mandatory maintenance allowances for all who wish to stay on et school or go to collegos after the age of 16. For these there should ba doy-releasa achamos and job sraining. To do

New blography of William Beverldge.

DES computer methods.

Michael Posner on energy research. Lewis Elton on schools and univorsities, we leave the second volume of Theodoro Zeldin's his to Tile was told this week that the Government's pay policy has prevented. Scottish further education to the Government made under the secturers belog paid the second part of a sertlement made under the Haughton report of 1974. Mr John Pollock, geograf secretary of the Educationel Institute of Scolland, said local authorities had made approintments in fine with the longhton proposals so that, lecturers had been occupying posts for which they had not been accopted by the Government so new negotiations were unnecessary. The 500 lecturers affected were said to be the only teachers in Britain not have been paid their full Houghton eward.

Clash over course

by Duvid Walker

North East London Polytechnic to examino its stuffing needs in the wake of the decision to class its lwo-year suciol wark qualifying course to see whether stuff cut ho redejdayed to leach other enurses.

Universities and polyterlatics will find it more difficult to employ foreign terturers in future because of stricter control on the Issue of work permits by the Department of Employment.

that because of the high level of work pecuits would be issued in

on the pupil of pulpic sector as university toochers. They cull for an enul to the system of cash limits and its purelysis of "recollistic collective bargaining" of the first pulpics of a populary.

The AUT asks trade unions to ensure thin the pulpic of populary.

The AUT asks trade unions to ensure the provision should be mode for the provision should be mode

This week officials of CCETSW were trying to contact students information on eduninistrative and climater this month in an effort to get them last minute places on other sociol work training courses.

Leader, page 10

Leader, page 10

Leader, page 10

Work permits cut for lecturers

memployment in Britain fewer

Earlier, Dr Brosan had heard from the Control Council for Education and Troining in Sociel Work the body resposable for volidating if the epplication of Mr Suresh byyas, the Nawham employee, had teaching staff had indged him unnot allow his admission to the College in Males and the course.

Inc. first full-time election study in Walos will he carried out by the Stwyth. A team from the Depuritance of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery ment of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery ment of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery ment of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery ment of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery ment of Pullifeal Science led by Mr some will carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales will be carried out the carried on the carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales, Abery with the carried on the carried on the carried on the next General Electrical had indeed him unnot allow his admission to the College of Wales will be carried out the carried on the carried o

Correction

Uninn leaders at Rinekpool: Sinn Broodbridge, the NATFHE general secretary (left), and Laurie Support, the AUT general secretary, wait in take the rostrum at the Trodes Union Congress. Report on book page. Covernors form rival body A new association of polytechnic Vantous funding separates for the governors designed in act as a association have book indicated by counter to the growing strength of the working purty, made up of the brid education authorities is likely chairmen of North East London, to be established furnally acxi North London, Central London and Uninn leaders at Binckpool: Sinn Broodbridge, the NATFHE general secretary (left), and Laurie Sapper, the AUT general secretory, woit to take the rostrum at the Trodes Union Congress. Report on back page.

inevitably receive a cool ruccution from the Committee of Directors of the rote support gront, or from sub-Polytechnics, is expected to come of scriptions noid by individual poly. to head IUC n top-level seminar of polytechnic tochnics.

tochnics.

The George Brosso, director of directors at County Holl, Londam.

A working party to investigate attended of an observer alongside brown of establishing o notional forms of governing bodies was set up in February at a special meeting spansored by the North East London Polytechnic. It has met regularly since will have drawn up of scribes of recommendations for meximal month's seminar.

A draft constitution for the proposed association as an approves the ideo methods of funding will be explored.

The THES

The THES

We apologize to readers for typologize to readers for typologize to readers for typologize to posting and countries and association as an alternative national mouthpiece for the posting rooms.

Leader page 12 lng will be explored.

by aght to pay less aitention of higher to the past of institution and made to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the counter to the growing strength of the working purity, made up of the working purity, made up of the working purity.

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North London, Central London, North London, Central London, the counter to the working purity, made up of the working purity. public funds, for Instoneo through Dr Inistlethwaite

list at Cadgute; and 71 out of 83

Contents French history



the second volume of

Remedial work

Lewis Elton argues that it is possible for universities to adapt to variation in first-year undergraduate standards, 7

Computer records

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	Letters	5. 1
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Quality in schools reviewed

The education section aspent the week discussing wars of improving the quality of education in schools, under the presidency of Mr Affred Yates, director of the National Foundation for Educational Re-

Universities came imo the picture, however, during Mr Yates's presidential address, in which he considered the contribution of education research.

Firstly, he said, communications

to lack of effort on the part of researchers to publicize their activities." Mr Yates said. "Indeed, it would be very difficult to dissuade researchers from rushing hum print as soon as—and sometimes before—

Few speakers welcomed the report's recommendation that united the report's recommendation that united the report's recommendation that united the speakers welcomed the report's recommendation that united the speakers welcomed the many Finniston, chairman of the BA coordinating group that counted the report's recommendation that united the report recommendation that united the report's recommendation that united the report recomm vitally necessary to a researcher's sease of well-being as an accumulation of profits is to deat of u

Much of what e rasearcher writee is intended for his fellow rasearchers and is lotelligible only to them, Mr Yates admitted. But e large and lucreasing volume is almad of practicioners.

har ceason why it "sinps illsiressingly abort of achieving satisfactory disomination", he went ni, is that some research is impossible in populative." Fire popularize. "For some jargon there is no adequate sustitute.

The problem that commonly confronts the poularizer is that he accounts that he poularizer is that he constants the poularizer is that he accounts that

the result of en inquiry or experiment, we need to know the methods used to obtain it."

Mr Yates said researchers heve come more than halfway to meeting come more than halfway to meeting the needs of their customers, and practitioners should make a carresponding effort to learn the purposes, methods and concepts of educational research. "For the older practising teacher or administrator this cuits for a bit of hard reeding o rattendance at an inreeding o rattendance at an in-service course or two."

Communication in the reverse direction—teachers telling researchers what mey should be investigating—is making good progress. But Mr Yates emphasized the need for more basic reservable unlostly having as its prime alm the orbital section.

prompted ealety by intellectual currounds that the currounds the collegation of the colle

Universities urged to drop physics for entry

Two key recommendations of the British Association report Education, Enghteers and Manufacturing Industry that university engineering departments should stop the manding A level physics and that universities rather that engineering first antibute should monitor the practical training of individual graduate engineers came under attack when the report was discussed at an upon.

A woman electrical engineer said. the report was discussed at an open meeting at Asian this week. A woman electrical engineer said

it rould be distituted in drop physics on a permanent lasis, She also challenged an assertion by Dr Much of the opposition came, nor surprisingly, from the professional institutions, whose role would be Joe Pope, vice chancellor of Aston University and director of the BA investigating team, that the actionles limited to monituring engineering courses; rather than the progress of imiteduals, it the report was of industry rather than schools were responsible for puring girls off For distance, Dr Ewen McEwen, cugineering.

inquediate past president of the Institution of Mechanical Engineers, She said employers had put no harriers in front of her. But going into schools to talk about engineersaid the report was ordente droo much towards universities and not enough towards industry. Universi-ties would never be able to main-tain a confishent policy on engineer-ing training some problem. much towards universities and not enough towards industry. Universities would never be able to maintain a consistent policy on engineering training; some would wash their hands of all responsibility for overseeing the training of graduate. nverseeing the training of graduate

between researches in universities and other institutions and practiand policy-makers—need to be improved. There is still distrus and misunderstanding between the two groups, though relations are not as boll as o few years ago.

"Any failure to disseminate research findings cannot be attributed to lack of effort on the part of research findings cannot be attributed.

Few speakers welcomed the

they have any positive findings to report. A steadily increasing list of Attempts to raise engineering education's status criticized

tive, use of technology by saising for example, such a policy had been the status of engineering education and of the engineering profession in the misgoided, necording to Dr. G. L. Price of the Department of the National Comment in Education in Industry and Comment. Liberal Studies at Manchester

Icss effective than strengthening the links between institutions of advanced technological education and the pattern of research and develop-

the reader less not beggdred.

"Even if this hurdle can be closted, there is enother risk which is particularly associated with ettempts to abbreviate research reports. There is no such thing, it has been widely observed, as an independent result. Properly to under stend, interpret end evaluate the result of an inquiry or experiment we need to know the methods.

In the case of advanced scientific Addressing the sociology section,

In the case of advanced scientific end technologicei education in Britalo aince the Second World War, there had been two distinctive policies corresponding to this dis-

On the one hand there hed been attempts to strengthen the Infra-structure of technical education, stressing the provision of technical stressing the provision of technical competence to meet the requirements of particular industries, the strong influence of patterns of particular industries of patterns of color training, and an orientation towards local oneds and resources.

ladustry and Commerce.

committee on manpower resources for science and technology.

The latter approach had stressed the need for trained personnel to have access in and skills in using the type of knowledge peculiar to the scientific profession, resulting in educational ideals that emphasized high levels of occupational autonomy.

The effect of the post-war con-

Attempts in increase society's effect. In the innucliate post-way years,

Internal Studies at Manchester These policy optims, however, had been overshadoved by supporters of the alternative approach,

relying on the jiresent system of relying on the jirdgment of committees of leading scientists seems in work," Mr Dolby said. "At present there does not seem to be any elternative method available that could be as offertion."

"Tho strength of the consensus among industriellars and unlitteens in the years of post-war planning effectively constituted a strong increase in the level of demond for Price said.

sansus was temporerily to raiso the level of public trust in the sociel value of this particular social occupational group, and to facilitate their professional eulonomy.

distinct elite groups to emerge, so that the second distinct elite groups to emerge, so that scientific consansus can occur more sasily. Mr Dolby said. Confusion surrounds role of nurses

A replica of the oldest existing clock in England was set in unition at a ceremony at Asion University during the British Association meeting. It will connemorate the work of Allan Ede, sculor provide-chauceline of the

sculor pro-vice-chanceline of the university between 1972 and his death in 1975. The replica is two thirds of the size of the original in Salishary Cothedral, which was built in 1386. It has been made by the William Cons

heen made by Mr William Cape, a fellow of the Institute of Mechanical Engineers and past chalrunn of the British Horn-logical Institute, who is pictured beside the cluck.

Social hierarchies within the

sorial merarenes within scientific community may impede the development of research by discouraging flexibility and impel-

Monday. But although it might be undesh-

Hierarchies

research'

bo as effectivu"

'may impede

Symposia cross boundaries

The British Association by times been criticized at pay ings for carving up implications for carving up implications for carving appropriate for cardinal specialization are an entire in the special carvinging three interfessions of the special carvinging three carvinging th Doctors, psychologists and g

bluctures, psychologists and section is spent of day died ageing. Two days were dered a symposium on "interdebe Research and Social Free organized by Professor \$1.6 of Aston University". To followed by duother maky it gramme "Cuping with Castons arranged by the Open University Professor Cook's committee of the Castons arranged by the Open University. whilst rejecting "adventurist tac-

Professor Cook's symptomic perhaps too diffuse, for act at talk by iMss Maired (at talk by iMss Maired The name cohesive Operic the name concesses Opening sity contribution stated at philosophical plane with the by Sir Edmund Loach, Base King's Callege, Cambridge Committee and machine, he have the made by hecause they are made by a Bin we cannot understand use the cannot understand use the can only understand maked models of uture construct?

" In order to make assured In order to make neural standable and unageable at pose upon our environmenter ficial synthetic pattern desolette pattern desolette pattern desolette pattern of the appear complete the pattern of tent appear complete the pattern of the first desolette pattern of the pattern o

"Although we have mindle control a great deal of each resort to our mechanish and most of us fight shy of age strictly mechanical mokk no selves. We are ready posterial scientific community may impode the development of research by discouraging flexibility and impoding the recognition of important new ideas, according to Mr Alex Dolby, of the University of Kent, addressing the sociology section on Municipal transfer of the sociology section on Municipal transfer of the color is Ref. section for this claim is Ref. section for the color is Ref. section for the a machine could never have the Shakespeare's Humber."

That although it might be undeshible in the contrarge the hierarchical readencies of science by institutionalizing them fully, it was difficult to see how scence could work without at least some of them.

"In the distribution of resources for research, the present system of relying on the indigment of committee."

Shakespeare's Homler."

Sic Edmond, who is Professional inthropology at Cooking anthropology at Cooking anthropology at Cooking in the sound or heart some arrangement. The companies of the contrargement of committee the contrargement of committee the contrargement. The contrargement of committee the contrargement of the contrargement of committee the contrargement Sie Edmund, who is Protess a control muthynpology at Candida urlminted to heing in a dilense, he in acheist and refuses to belse in the sould or in larger scientific the sould be seen to be

group mind".

Yet has argues that "our him the remarkant the world and of professor throught on to the world altogether special." This gets "periluusly near to saying human beings have souls or, all rate, that they have minds where somehow distinct from her ins."

bo as effective."

Mr Dolby said that an institutionalized literarchy might offer
rewards to those sceking recognitinn, and greater visibility in the
most accumplished of scientists. Hat
it also tended to produce elite
groups who associated primarily
with enconother, perpetuating themselves by recruiting primarily from
their own elite students.

In contrast, social systems of

In contrast, social systems of science in which less power was concentrated in formal institutional hierarchies provided greater variability in the anture of, and rootes into, the scientific elle. There is greater opportunity for

Avoid police conflict in racism fight, NUS told

by Douglas Morrison

An appeal for sundents to attack the evil of racism without tuerles leading to police conflict opened the National Union of Students' conference on teacher education held as Heriot-Vatt University this week.

Alies Sue Slipmun, the president, spoke on the fight against racism because she believed it to be the most frightening issue facing the country and because of the contribution students could make.

She dismissed the tactics of confrontation some have used agoinst the National Front because they were naive and led to destructive action and sha challenged oil thuse

were care and she challenged oil thuse opposing racists to reject politically the Fascist alternative and work towards racial harminy. She called for a committed campaign to louk for creative solutions to racism or the rejecting adventurist tag-

tics."

The blindness of those who saw the police and National Front estimerchangeoble was amazing, she said. There were good and bad elements among the paolice but it was playing into the hands of those who wished to limit democratic rights to force policemen into attacking demonstrators because they themselves were attacked for protecting the NF.

The police needed understanding

be limited to demonstrations. "Now is the time to create the democratic multiracial educational institutions which will publicly reject racism," she said. "We must work in human with all other forces in our communicies willing to work with communities willing to work wide

The NUS had asked o number of The NUS and asked a number of institutions to host conferences involving all their otembers in discussing the role they could play in defeating ratisot. It had approached heads of institutions to bring together the academic continuity in this parsuit. The further education sector was closest to the basis of conflict and could have a major role to play in reaching young disadvantaged black people.

Student teachers should be work. Studem teachers should be work-

ting for courses in multiracial educa-tion not as an option but as an essential part of the education of any teacher, she said. But while students developed their own role and identity in campaign they must also be in contact with other organizations and movements which shared their objectives, in particular the Standing

rights to force policemen lature attacking demonstrators because they themselves were attacked for protecting the NF.

The police needed understanding leadership to overcome the problems of racial conflict but she wanned that the strutegy of their present leaders must change and that it was he politicisms' job to see it did.

The student campaign should not Committee Against Racism.

The campaign must have a number of the grophers to black and the wider forces; to bring together young blacks and the wider forces; to bring the problems of black youth and seek sultings; to take to the streets to approve the NF but with responsible forces; to bring the problems of black youth and seek sultings; to take to the streets to approve the NF but with responsible forces; to

Government urged to seek new initiatives for deprived

The National Union of Students this week urged the Government to suck new initiatives to cobbat racial depri-ration in Britain's education system is called for a fundamental reapprul-sal of the purposes of further educ-cation and the role of post-school education in challenging racial prac-tice.

A strongly-worded submission to Mrs Williams, the Secretary of State for Education and Science, from the NUS analotained that all educationists should take up the challenge to overcome Institutional forms of discrimination.

Assence could now respond to the

Threed in roincide with the uninn's launching of a new campulan in to combut racism the submission to combit racism the submission said: "There were inadequote responses to the major report pruduced by the select committee on the responses to the major report pruduced by the select committee on the response and immigration in Februray rhis year and there is still so argent need for new initiative to be taken by the DES in rooting out the causes of raciol daprivation in our schools and colleges."

It added: "Major changes now taking place in further education promit a fundamental recupraisal of the purposes of further education.

Cambridge

tion and the role of post-school education in challenging raciel practice. In the porticular areas of corrections and employment real headway can and must be

There was a sital relationship between teacher training and curricum development and both

The Mannawer Services Commission and the Training Services Agency could now respond to the expectations of the black community by "piloting" the incomes now developing in further education. Cinsor links in this field should also be developed between the education and youth services. services.

advising junior floctors appointed to training pasts at Guy's flospitol not to complete a hospital question-naire seeking detailed information about their physical and mental health and drinking hobits. The submission concluded: " In The submission concluded: "In oll secures of NUS membership including further education, adult education, colleges of education, polytechnics and universities, we will be asking students' unions and college authorities to declare an institutional conmitment to lighting racism." lt wes utacceptoble not only because of the pursonal deteils it required but also because, by signing it, the young floctor gave the hospital permission to approach his or her of to obtain edditionel medical information.

Bristol students may miss may get most stimulating talk'

Serious flaws found in sixth form mathematics teaching

Research into student arbieventents in mathematics was one of the main concerns of the academics, teachers and examination board administra-turs attending the annual conference of the British Educational Research Association in Nottingham this

week. Frofessor Lewis Elion, of the scitore for colocational technology or

of teacher" is needed in the secon-dary schools: "one who has been made to feel at home with the way that mathematics is used as well

as what mathematics is, long befor he learns how to reach it. "Such teachers are not likely to come but of present outlinearies the Unit courses, many of which are self-contained in a way that the teaching in no other discipline can be."

Surrey University, reported serious flaces in mathematics teaching in the sixth forms of schouls and in the early years at university.

One problem concerns the special with which students lose their mathematical knowledge in the few months that, for most people, years as sore Elton said survey evidence showed students "regressed quite substantially in their mathomatical knowledge between Jane and September". Although this can be forested by remedial teaching in the first year at university, Professor Elton connected and september. Although this can be forested by remedial teaching in the first year at university, Professor Elton connected and the first year at university, Professor Elton connected that this reversal had "serious consequences".

He concluded that "u new kind contained in a way that the feuching in a nother discipline can be."

Research on how people learn muthematics by Dr Ruth Rees, BP research fellow at Brunel University department of concern of muthematics by Dr Ruth Rees, BP research fellow at Brunel University showed that a connected that the few mathematics by research fellow at Brunel University's department of concern of the deficient and methods lad to be concerns the special muthematics by the demanded general intellectual ability, which she called "nathematical inference of by students doing mathematical tests demanding mathomatical inference were clearly different for those items which demanded general intellectual nhility.

He concluded that "u new kind Can universities miont? mage 7 in no other discipline can be."

Research on how people learn muthentatics by Dr Rath Rees, He research fellow at Branel University's department of education, showed that a 'common core' of concepts and methods had to be mastered. Her survey isolated a general intellectual ability, which could be measured by intalligence tests, and a separate ability—which she called "mathematical inferance". The difficulties complained of by students doing mathematical tests demanding mathountical inferse tests demanding mathountical inferse tests demanding mathountical inferse tests.

10,000 places in UCCA clearingsystem

by Frances Gibb

About 10,000 sixth formers may through the clearing system too by the Universities Central Council on Admissions, the council bus esti-

macology, nursing, engineering, technology (all courses), economics, foreign longuoges, classics, philosophy, general end cumbined arts, sciences and engineering.

Subjects which are oversubscribed include: modicine, dentisity, phurnincy, surveying, forestry, account toney, law, architecture, drama fina art and vetorinary selence.

art and vetorinary setence.

Candidutes and places are more or less halouced in: electrical and mechanical engineering, agriculture, geology, hiological sciences, business management, geography, polotics, history, English, archaeology, music, social studies and psychology.

Last year psychology was over-subscribed, but this year its places ere evenly matched with candidates. The reverse is true for pharmaco-

The clearing system is currently coping with about 27,000 home condidates who have failed to gain the required A-level grades or who were not made an offer orginally and dow think they stand a chance.

and dow think they stand a chance.

The existeee of unfilled places at this time of year is frequently misunderstood, UCCA says. Universities cannot fill all their places when confirming conditional offers because candidates du not distribute their applications in a way which exactly matches the distribution of available places.

Second selectors cause because

Second, selectors count forecast precisely have many candidates will satisfy their conditions. And as they cannot risk exceeding their quotes they will tend to underesti-

"Herons, Mating" (above) is part of an exhibition of wildlife photography by lan Curstairs which is currently on show at the Hunterium Museam, Glusgow University. The exhibition, "A Part of it all", nims to break away from the traditional role of wildlife chatagraphy. mate.

Piunlly, some candidates who did
not got an offer et om earlier staga
do unoxpectedly woll in their exeminations and deserve further enualderation, it says.

SSRC overflows What was more, said Mr Caley, the form contained "o volled threat", ft was sent to those sprointed to truining posts with be warning het if it was not with oil funds

sphomeon to truining posts with be warning her if it was not returned iby the dete they were due to stert work, they would not be lasted with a contract.

is affecting Scotland.

It set up a panel to disbucse research grants in 1975, since when it has allocated £55,000. A fauther £84,000 is avellable for projects during the next two years. It is understood the ponel, under the chairmenship of Professor Fred Mertin of Glosgow University, has lind to earny as applicants. Those interested should contact the panel at 18 Bute Gardens, Glasgow G12 ERS. The hospital odininistration et Guy's was bewildored by the "storm in a leecup" thet had suddenly blown up ebout the questionnaire, which had been in use for years without cousing ony camplaints until e young house physicien drew the BMA's attention

Academic left is unity pion!

The British Medieni Association is

Mr Tony Coley, secretery of the BMA junior hospital staff committee, who has writton a protest letter to Guy's abou the form, said

BMA advises junior doctors

not to answer questionnaire

stimulating talk'

Stimulating t

N&F Proposals mean for Nuffield Science?

lasued with a controct.

The proposed N and F courses would radically after education in our sixth forms, what are the real implications of the improposals for science esching — in terms of deboratory work, breadin versus depth, interdisciplinary opportunities, or examinations?

As the source of much innovation, with a long and detailed experience or curriculum development, the Nuffield Science Teaching Project has noty published its own contribution to this debate.

contribution to this debate.

Sixth form science and the N & F proposals is based on consultation with teachers, educationalists, and examiners who have been involved in the Nuffield A-level schemes. It contains apecianen curricula in Biology, Chemistry, and Physics, designed for N & F courses and based on trials specially conducted for the study. These are followed by a full discussion of the general implications of N & F for science teaching, desling particularly with the difficulties of adapting imaginative laboratory-based teaching to the N & F puttern.

Sixth form science and the N & F proposals.

Sixth form science and the N & P proposals: a study by the Nnffight Foundation Science Traching Project is evaluable post free, price £1, from The Nuffield Foundation (EDU 195), Nuffield Lodge, Regent's Park, London NWI 4RS.





Monday

Tuesday

Back to Bradford after a tycek away. The old outstanding, I am glad to be reminded, has churun. Away from the place I had to admit that it had been defaced a bit there was an denying the effect of awashed grime, unrended cubble, and so unused building. Hur hothogain I find it easy to turn a blind out the going native.

Don's diary

NOTICE BOARD

Chairs we will be

Professor J. B. Owen, professor of anhoal production and health of the University of Aberdeen has been appointed to the chair of agriculture and to the headship of the department of agriculture at the University Colege of North Wales, Bangor,

or G. R. Sagar, senior lecturer, school of plant biology has been promoted to a chair, which will be regarded as the chair of agricultoral botany at the University of North Wales, Bangor. Mr M. F. South lecturer in closses at the University of Nocth Wates, Sungor has been promoted to a personal chair in the department of classica.

Mr Anthony May of the department of planning and transportation at the Greater London Council has been appointed to the chair of transport engineering in the department of ctvillengineering and the Institute for Transport Studies at the University of leads.

ekortheoming events

The British and Irish Development Studies Association is being set up in promote development issues through interdisciplinary studies, meetings, contereuces, and the dissembolism of information ubout research results, operation and practice, course curvicula, and valuing schenoes. The foundation meeting with take place at SADS, London, on September 30. Forther information from T. W. Gee, institute of Development Studies at the University of Sussex, Fulmer, Brighton BN1 9RE, Soasex.

t t t An interdiscipitary conference on metaphor and thought will be held at the liniversity of lithuois at Urbana-Campaign (UIUC), September 26-29. It will focus on the nature and role of metaphor in buman thought, teaching, learning, and communication. Differencesing interest in many disciplines, the related issues will be explored in an interdisciplinary context by a number of leading educators, lioguists, philosophera, cognitive psychologists,

and other scholurs. Further Informa-tion from Andrew Orlony, Centre for the Study of Reading, University of fillinnois at Urbana-Champaign, 1105 West Nevaila Street, Urbana, 111, 61801.

s. -- Grants

Applied psychology. — Dr. Margaret £40,000 from the Leverhologe Newton: £46,000 from the Leverhalme Trust for research work on dyslexia. This great will not only allow continuition of the work of the recently act up Longuage Reaearch Unit, but will enable De Newton to draw up portfolion of prescriptive teaching programmes in schools, which she hopes will serve to broaden the awareness of dyslexia.

ulegration and normed spaces : A (oview of the Course 1M331; prop

RADIO 4 (VHF)
10.10 The digital computer: Microproced auto (130.22); juice 151.

Monday September 12

gray 341 of architecture and draign History of architecture and draign 1890-1509; The M.A.S. Gray and the Thirdes (A800 ; play 201).

7.45 Solids, liquids and gases: The louis kelvin Effect (B1306); gran 141. 1.45 Integration and Normed Spaces (M331; page 11) 1.66 Bodsi psy hology: Members of the Bussi psy hology: Members of the Bussi psy hology: Members of the

mology foundation course : Stotis-and Hellability (11100; pron

Oceanic and Almospheric Administra-tion for an investigation into geo-graphical patients of climitic changes such as temperature and precipitation itoring periods of general warming/ rooling of the curth. Social studies.—Professor Alice Tel-chova; £25,000 from the SSRC for an investigation into multivarional com-panies in intercent central-East Europe.

Kent ntological laboratory.—Dr C. 1. Pog-son ; £21,639 from the ARC for studies on metabolic inter-relationships in Isolated slicep liver cells.

Appointments

Sangor
Senior lecturee: J. R. Edwards leconmiles). Lecturees, W. B. Banks
(forestry and twood science); G. Lioyd
Jones (biblical studies); C. R. Baker,
B. R. Bradbrook, G. H. Jones, G. D.
Lewden, W. D. C. Rees, N. Newmon,
S. M. Lynn, J. R. Webster, G. T. Jones,
J. R. Brooks (education); C. F. Jugo
(physical occanography); I. Gregaon
(Forgiles); Odling Legalt (Forgich)

ment of French); R. Sonnesbra (German); W. Sichnig (German); I. Romo (Norwegian lo the department of German). Temporary scales be more; F. E. Clegg (education). In-parary fecturers: A. J. Hawking, C. Jours, N. M. Thomas, A. D. Teike, B. H. Harries, A. M. Owen, R. B. Healy (education). Shell Icser's fellow; C. Sooyond juglou (economical, Tutors; Y. D. Lewis, B. J. Morga (education).

Correction

in our Issue of August 26, Profest E. W. J. Mitchelt was incorrect stoled as being professor of physical Leeds University. He is in fact a Reading University and from Copies 1978 will link the Dr Lee that dexperimental philosophy at Origin experimenta University.

Noticeboard is compiled by Patricia Santinelli

Open University programmes September 9 to September 16

Friday September 9:

0.46 The development of instruments and their induct: Konjokia (A504) prog ino age of reveluitann: 'The l'estivat of the Supreme Boling (A202; prog 14). Harth science lopics and orefloder. Minioralized in Counwell (8335; prog 15).

Fuedamontols of hue an geography: Rural Transport and Accessibility (1941), jury 13). Carriculum design and development. Primary French in its Balonca: Part 3 (1905; jury 18). The ninolonyili-century novel and its a (1305; prog 18). The ninetentili-century nevel and its legacy. Virginio Weel's Criticism of the Nevel—" Life Escapes" (A304)

the Nevel - Inc Escupes (18502; prop 14).
Science and the rise of technology edian 1800; Shee) (A8128); prog 14).
Principles of cliented processes:
Calalysis 187194; prog 1-1;
Social Sciences, Using Libraries—2:
The Independent Library. Warsaw: A development. Warsaw: A development. International Community Library of accidentation and design 1190-193; The Other Tradition A303; prog 211.

MACIO 3 IVHF1
0.50 Systems incheviour; Miniciling Muiogiral Systems (124); Prug 7

9.20 Compaigne, and compatent Haday
Compaigne, and compatent Haday
6.40 Hickonjistry and mokequir biology;
Asilbody Effectived spersoder to compatency
17.48 An algorithmic spersoder to compatency What Maken a Cool Program ?
(M281; Prog B). ing: What Maken A Oool Program? (MASI: Prog B).
Topics in pure mathematics: Topological Proporties and Constructions (M202): prog 14 if and organisms: (M202): prog 14 if and organisms: Phalogical Clocks and Cell Morbing (B202): prog 31; programmer: Hydroutic Modelling Englander: Hydroutic Modelling Science foundation course: Ooen 200 Drilling Project (2100: prog 25).

and programmen for North Scottand Hanalashuce and Reformation: Popular Pootry in the Chimbellan Period Traditional Ballotta (A201; 15.40 Propular) Praditional Ballotta (A201; 15.00 Propular) of mechinecture and design 10.20 Propular Pr

Saturday September 10

amputing and computers what out? Philipsi, prog 11) reading somes of society. Transport at the constant Leberaley of the constant of the course; council and notice with (T100; prog 8.08 property of the control and public with: Air Politules Disposition 1773; prog 7), pick in pure mathematics: 11; [x. (M2C2; prog 22] reduction to angineering meeting: Understending Fluid Effects 151; prog 53 display Plana c Computer Compu Compoler, Using a Com-eview (TM22); prog 9), and normed spaces; into-normed spaces (M35); 11.80 Prog 01. The majors income in the prog 01. The carbons History of Morethindrone in the prog 81. The carbons History of Morethindrone in the prog 81. The carbons History of Morethindrone in the prog 81. The prog 11.80 (ST291, prog 11.80 Carbons Edulary Red to Isologo Techniques 182-1; prog 4).

12.18 Officialist in the prog 4. Difficulties in the programment i

Closing deles for epplication

In Europe :

Sector Fellowships:
Advanced Fellowshipe:
Poetdoolorel Fellowshipe:
Industriel Visiting Fellowships:
Overseas (NATO) Fellowships:

Overseas (NATO) Studentables: 81 Jenuary 1978

12.40 Historical data and life social schemes The Large Household (1.30) Personality and learning: The Adolical Schemes (1.30) Lineor (Mathematica: Laplace Transforms (Mathematica: Laplace Transforms (Mathematica: The Channel Tundle) (1.22) prog 8).

13.30 Clicroconomics: The Channel Tundle (1.22) Figure (1.2 11.25 Elements of minic; Formal Analysis 17.50 Elements of minic; Formal Analysis 17.50 Upon Formal—21. The Property of Principles of Principl

RAOIO 3 (VHP)

8.40 7.00

20). Systems modelling: The End of Ilin Course (T3-1); prog 8). Notehomsiks foundation course: Complex Numbers (2) (M100 prog 8.2a 7.10 Arts foundation course: Finding Out lew the Other Half Live (Aliu; 7.38 Science foundation course: Placek and the Quantum Theory (\$100; per 29).

RADID 4 (VHF) Open Forum—31.

Chen Forum—31.

History of architacture said design the fillogality of the MANS Group and the Thirlian (ANOS); prog 2011.

The egg of revolutionn; David and life Cult of Anilquity (Au62); prog 2011. 7.20
10.00 Personality and learning: Story blattyled From Teenago Hoya (E201): 7.40
10.20 Personality and learning: Story flattyled From Teenago Hoya (E201): 7.40
10.20 Personality-contury Peetry I Philip S.10
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11.00 Peetry I Pee 11.20 1

niory of mathematics : Review of Numbers Option (AN209) prou ing remnant op 101-Bacial psychology : Applied Kesearch In Bacial Psychology 10303 : prog l naissanco and Hoformailon : Popu-Pootry in the Likebelhan Period The Traditional Ballids (1980) ; prog 24 raminonal Estada (A101);
1-2-th Science lopics and institude:
1-2-th Science lopics and institude:
1-2-th Science lopics and institude:
1-2-th Science for 12-th Science (1-2-th Science for 12-th Science 14.40 • 18.00 16.28 •

13. Announcements/Mistr I'll ledu artil relations: The Public Sector (Patri : proc) : The Public Philosopher (Patrice Process) 10302 | Proc | Principles | Princ inguage and learning : lievision

repincement programmes for Horib Scotland and Wales

Sunday September 11

FELLOWSHIPS'

OVERSEAS (NATO) FELLOWSHIPS and STUDENTSHIPS

Applications for SRC Fellowships and Overseas (NATO) Fellowships and Sludentships commencing in 1978 should be made to the Solance Research Council, Advence Office Swindon, P.O. Box 18, Swindon SN1 5BW.

For application forms telephone: SWINDON (0793) 26222, Ext. 89,

30 November 1977 31 October 1977

No closing dels-apply any lime.

Februery 1978 and 1 June 1978

88C 2 7.40 Arts foundation course : Signs of the Tunes : Cartyle [A100 : 100 31]. Science foundation course : Quantum Theory (S100 : 100 201 Authenburg (S100 : 100 201 Authenburg (S100 : 100 201 Equations (A110 : 100 Equations (A110 : 100 Equations (A110 : 100 Equations (A110 : 100 Equations (B100 Equations (B10 : 100 10.10

a.30 ·

RADIO 8 (VHF) Hiotogical subsection behaviour; ancial Bulawiyour of Ammals (SDT:846; 16:04) and the subsection of Creamic Crust (52:3; prop. 17:05) and of forestillons; The figure of propulations; The figure of propulations; The figure of the subsection (AZIZ); prog. (19), and (1 Transfer Asset (1991) SCIENCE RESEARCH COUNCIL

10.24 | The proof of the proof of the public relationship of the public rel Prolacement programmet for North Scat-ing and Water 24.00 Decision making in Parish a Conocision making in British : British and the Third World [17203: 1170] oo.40. War and actory to war and Music

Tuesday September 13 8.40 A1

7.30 Biological based of hohaviour ignorial 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 18.35 | 7.05

17.48 Quantum theory and nionic alructre :
Shupes and Angulor Monurola in
Alona (SMAS) : prog 9).
[0.16 Sysious performance : human fathers
and evidents fallings : Lurthquakes
(TD343 : prog 9).
[0.18.35 Science Handallon course : Quantion
Theory (8)00 ; prog 20).

RACID 3 (VHF)

8.00 An introduction in insychology: filscustom of information Processing
(1983) in or information Processing
(1983) in or information Processing

8.20 Science and the rise of technology
of the product of the product of the state of the product of the state of 18.06 • Aria foundation course : Linding Online The Other Roll Live (Albert prog 31).

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Wednesday September 14 the age of revolutions: flactd and the Guli of Antiquity (Adles : prou

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1011day September 12

6.40

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10.00 in Abone (SMS): Prop VI.
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Friday September 16

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STUDY AT HOME for a London University Extends DEGREE Wideey Hall, the only correspondent college with full courses for Landen University External BA degree, provides individual instruction by highly qualified lithers. individual instruction by highly quantum individual instruction by highly quantum individual instruction or remaining exceed of success - o pass rate of one 19% is success - o pass rate of one 19% is including a high proportion of the 1st individual opper 2nd class honours ansated. Since the courses cover B.A. in Das Robert S. Courses cover B. Courses cover B.A. in Das Robert S. Courses cover B. C tauge of professional, the Principal subjects.

Pres prospertus from the Principal W M M M Milliams MBV, 1D, MM, Diept BAI, Wolsey Hall, Oxford OX2 6PRI, [1]

Trieptone (8865) 54231
[Ansalose page 4.43, p.m.] Wolsey Hall oxion

Arthundest Menderature Landett

there was an denying the effect of anwashed grime, when the clean pussing movements of mandiscipand an annused building. Him both again I find it easy to thru a blind gr. I must be going native.

Today I welcome into my care a stand form! specifically a pure a stand form! specifically a pure as the clean pussing movements of mandiscipant they do have a lot of ominhibited forward play, supplied profession is too often stand form! Wednesday

A colleague at Cambridge used to

hip is likely to real a foral one rehearse to myself the evidence that they cannot have been so. However the fact remains: sloce arrivities with the source. A full staff meeting this morning. I am part of an interdisciplinary school which has four philosophers.

again behaviourism gets bashed and we are entertained by bright glimpses of homanistic alternatives. glimpses of homanistic alternatives. The philosophers and psychologists pile into the bose rack of discussion. It is not certain that the bull is ever heeled, or even seen, but the thing is fun. Interdisciplinary accessing mayomous of muscing mayomous of muscing mayomous of muscing intermined in the company of muscing mayomous mayomous of muscing mayomous of muscing mayomous mayor mayomous m

Today I relevate into my care a friend's fowl; specifically, a parron; by name, Fred. The office fur him and on my flat, the will lind more company there, and perhaps more occasion for his very derisory; "Rubbish I" The instructions say that Fred likes having his head seratched, but ay bite the hand thus teratches bi. I think our relationabin is likely to real of a foral one. A colleague at Cambridge used to apply that Wednesday was seademics' least favourite day as it interfered with two weekends. Even at Cambridge 1 thought it a bad juke; here 1 think it fool. My three months in Bradford may not have been typical, and I regularly rehearse to myself the evidence

form a rate and culourful baleido-scope. Yet the system, it would scape. Yet the system, it would appear, has satisfied the students. The per onal reports of our 1977 graduates on their time in the school speak of the usefulness of the year away in preparing for final year dissertation work and in gaming a "realworld" perspective on the subjects studied in the first two years.

gaming a "realworld" perspective on the subjects studied in the first ten years.

The aftermon brings another meeting, this tame of the Hoard of Social Studies. I am on my bass because a proposal from the school—backed manimously of a general meeting of staff and students, as I reasonre myself—is up for discussion. We trait a change of title which would make us "School of Interdisciplinary Human Studies". Hardly poerry, I am ready to admit, but more huntaines than the dark label which has presented whicherto us "School of Human Purposes and Communication". When I eventually meet my predecessor, Pairlek Corbett, I shall have a log to thank him for—in particular the quolity, human and intellectual, all my colleagues—but I will mu spare him the rebuke of having given our enterprise a designation which must stand unrivalled for opaqueness, even latthe empany of American universities. Happily, the Board of Studies lets the proposal through. Now for the Schute...

am part of an interdisciplinary school which has four philosophers, two social psychologists, two social psychologists and a literary historian. As chairperson, although I merit the title of philosopher chairperson, I llounder still. Today I manage to steer our meeting through the minor agenda in one hour 211 minors, leaving 10 minutes for the two really important matters we had to discuss. One of these gets possionedfor the second time, I municulate the school matter and the school most indicates of most undergraduates that this.

This is a big administrative day. In the morning a meeting with numbers of other schools to discuss the sandwich system. Even a fine the morning a meeting with numbers of other schools to discuss the sandwich system. Even a fine sandwich system. Even a fine that it is such a uniquely compelling theory as rotionally to commend majority support. I wonder whether one pressure which the school and afterwards be reads a paper. Once

A parrot colled Fred : plenty of scope for shouts of "Rubbish".

such a desire. For if my sup-posedly bulanced view is correct then the individual researcher con draw little comfort from tho thought that his or her discipline has some general significance for other uman enterprises. He or she will have to accept a great measure of withdrawal from practical affairs in order to do research but can of withdrawal from practical affairs in order to do research but can have little assurance that the contribution for which he or she is individually responsible will make any appreciable impact. However certain it is that in every generation some people in any academic subject will make their social mark, it is equally certain of each particular person in that subject that he

that few. So far as self-justifica-tion is concerned, the researcher's

Friday

On the way to university t drop aff some washing ut my local laundry, t remember as I leave the shop that I have not been given a receipt for what I have left, and ask for one. The overworked proprietor, after giving assurances that he will remember me, holts in despair in his great pile of loundry bags and explains: "We have so many bags of trashing left in, how can I give a receipt for each one?"

me, how can I give a receipt for each one?"

Tailay is the qulet after the storm. Must of my week, thought I have not yet mentioned the fact, has been spent preparing a submission in contrastion with a planned MA course ad now that has been completed. The auccess which we feel we have achioved in interdisciplinary teaching of ondergraduates has led us an propose an MA in "Philosophy and the Social Sciences" and we hope to put this up for university approval very such. It is idea is that we would offer the optional courses of which students would take three, this caurse types being supplemented by preparation of a dissertation. The courses would presuppose I could understand, though it would hardly be possible to justify, such a desire. For if my supposedly bulanced given is correct of occumplishments to the partici-

The weekend is here ar last. There will be ucndentic adds and ends to be done. There will be this diary to be written and put to the post. But also there will be time air in enjoy the visit of a friend. If the weather is good we can get uut haro the moors or the diles. ... When the northern Victorians built this old monument of their enthuslasus, they chook

LETTERS TO THE EDITOR

A place for commonsense

Prience, something that seems to be desirable in so practicel un kalyliy as education.

Sandy and sandy

The Place of Commonsense in Educational Thought (THES, August 11 in rest) of us are not to allow ourselves to be put out of higostice. On the courtery, the commonsense of injustice. On the courtery that the counter of injustice. On the courtery the courtery that the counter of injustice. On the courtery that the counter of injustice. Contends the injustice of injustice. Once in injust

Tores socia an expectation into pose that o first stage must be completely may exemple pletted before you coolamplate stage

Sir,—Your reviewer, in his commentary on Lionel Elvin's loiest bonk, mekes some challonging of effirmations in suggesting that Elvin is concerned with "palliotives". The core of the argumet seems to be that Elvin's engagestic tives". The core of the argumet seems to be that Elvin's engagestic tives are only palliatives becouse the idea that a liberal education could be universalized. The ideal in fo liberal education less never encompassed within it the proper recognition that men proper recognition t

the distribution is no practiced in the seems to the state of the stat

Appraising Brecht

Sir,—If t write in comment on Mi Greatile Wall's review of my book, the Place of Commonsense in Educational Thought (THES, August 19) is an interpretation of the put out o Brecht the Dramatist., A vary lorge part of the book is devoted to such part of the book is devoted to such matters as charocterization, use of blook verse, effectiveness of key speeches, structura in reiniton in themo, coherence and engency of didactic argument, interplay of music ond words, function of décor in revealing meaning, validity of allegory and irony, rolevance of satire, end attached that is essantial to en evaluation of Breckey, plays and techniques in terms of drama and theatre. Mr Beckley, having made no mention of all this,

although he does not tell us what these are.

I suggest that he had been a critical approbal is what I have offered that he Bockloy has blimled himself to that fuct. Criticism is, if put into practice, tobus he German academic circles, and a glatuae of he is enough to make my Licerularvissenschaftler close eyes. He leaves all that kind of thing to the publicist, and proceeds with his Baluibarblan operatione.

Yours sincerely,

Gralitate employment

Sir,—Your recent lender on gradulate employment prospecta (THES, July 15) raises fundamental lesues show the future, indeed the rationale, of higher education. The message, in one acuteuce, is that graduales will be subject provided in the future of the old "trained mind theory—the idea, that is, that may rigorous ecademic course constitutes will be subject to the old "trained mind theory—the idea, that is, that may rigorous ecademic course constitutes will be subject to the old "trained mind theory—the idea, that is, that may rigorous ecademic course constitutes will be subject to subject that this idea is largely mything the corollary—while you did not which, from u different standpoin.

mention, but which la emply docu- comes to the sense conclusion,

Where will the process end?

Must we expect that, in order to compete for jobs, everyone in the eod will go to college for a development which some writere circedy discern in the United States?

Problematic as the prospect is, it is provided that dogrees the right to cut or anend them if necessary.

The control of the control and a series and a series of the series of the control of the series of the control of the control

Yours sincerely, RONALD GRAY, Emmannel College, Cambridge.

The corollary-which you did not which, from a different standpoint, If these doubts ere well founded, the ultimate prospect we face le of a higher education system em-broeing something like the whole

donel qualifications required for identifications. So what we fece is that familiar phenomenon, the qualification spiral; and it indicates that the spiral; and it indicates that the spiral; and it indicates that the spiral is the spiral is the spiral indicates that the spiral is the spiral indicates that the spiral is the spiral is the spiral indicates that the spiral is the spiral is the spiral indicates the spi

ba monstrous,
Yours faithfully;
DUNCAN NIMMO,
SSRC fallow,
Department of educational recourch,
Lancaster University.

= **C** Ţ. R

shawed that a centralised data collection would be worth developing.
The triols were extended an a voluntary hasis over the next two years and in 1972 ohour 20 ner cent of the 600 cufleges were included. It was then decided to introduce the PESR system in oil colleges over the following two years which had to be extended to four years mainly organisation, the DES said.

organisation, the DES and.

November 1976 was eventually set as the dave by which all polytechnics and further education establishments, other than former coleges of education, were to be included. The latter will be in by Marambay 1975.

Nurember 1977.

It is the Novamber 1976 data that the DES's ICL 1906A computer is about to mulyse. The delay is primarily the fault of a few colleges which submitted their returns many months late, according to the department. Definitive multipastatistics cannot be produced without a return from every further education fustification. These delays in submitting does are further in submitting dom are further extended by the need to resolvo teething troubles and correct errors.

Grand old man

Dr Harrls, a Cambridge-trained

of LSE

and social

All data submitted are subjected to "credibility and validity checking" by the DES computer. The tracking incomplete, impossible or implausible information, and they are returned to the college for constants.

femile student on n mining course.

In 1970, under the pilot scheme, an less than 18 per cent of records a were in error. By 1975 the error rate had been brought down to 2.7 per cent, though even that level represents 48,000 mistakes. Of the 1975, only 27 gave completely clean data; a further 141 were correct after one reprocessing operation, but records from the remaining 313 had to be reprocessed twice or more in order to oliminate all errors, in order to oliminate all errors, ar added in your record almut, for example, your religious or anlitt-production of statistical madyses.

Some of the statistics on the right are now part of a DES central data bank, as Clive Cookson reports

Individual computer records on all two follows turbed and producing major further education and schemes, as calculation of the Ruther reduction of the Ruther reduction

Students' names and dates of high are included as a necessary statistical lable so that their movement through the system can be followed, the DES says.

The Government has guarant the privacy and confidentiality of the PESR. Only employees of the DES statistical branch have access to the information. If anyone else, whether employed in the depart-For example, if a stationt used 19 or under is shown to be following a postgraduate course his or her record is rejected under error code 42. Error code 40 challonges any femule student on a mining course.

The DES is neare that some promises students. David Walker previews a book on Lord Beveridge

underly purliament for a time as a liberal ho spent the 1950s, like Lurd Reith the former director-general of the BBC, haugry in take part in government but over For the middle and later pair af his life Dr. Hards could call on recollections af Reverlage by neuplo still living—Lord Robbles, for example, tangle at the LSE during most of Reverlage's tenure.

Welfare

Part of the history of social welfare in Britalu must be the story of the Loudon School of Economica. In the first three decades of this century men, legislotion and hieas were linke'd to the school by the skeln of influence running through the honds of Sidney and Bentrice Webb, its foundees.

Nuwhere alld the two histories run closer than in the career of Williom Beveridge, the Webb's choice as director of LSE in the 1920s and 1930s. Edwardian administrative immerator, another of the formula reports on sucial iosusmoce and fulf completened to the subject of odefinitive hierarchy and now the subject of odefinitive hierarchy histories, and now the subject of odefinitive hierarchy historian who now lectures in the manner of the subject of odefinitive hierarchy historian who now lectures in the manner of the subject of odefinitive hierarchy historian who now lectures in the social conduction in humanity and according to the subject of odefinitive hierarchy historian who now lectures in the manner of the subject of odefinitive hierarchy historian who now lectures in the life of the story of the land heldeve in the "large discussion of hierarchy tenure, hierarchy lecture of discumballed good bleas". He was not hild heldeve in the "large discumbant of the purities and relicd entirely man of extend must check in the large of the despised porties and relicd entirely man of nection cities of the subject of the britant of the purities and relicd entirely man of nection cities of the subject of the britant of the large of hierarchy verve of clumballing must citied entirely and particle was not halped entirely man of nection cities of the despised porties and relicd entirely must of hierarchy verve of clumballing must citied entirely must of hierarchy verve of clumballing must of licerthing in the lange of hierarchy verve of clumballing must of licerthing in the long the mission bulled in the lange of licerthing in the lange of the schol of particle must of hierarchy verve of clumballing on hierarchy verve of clum

by Harris, a Cambridge-trained Bereridge's work un labour at the LSE. Strangely, he was historian who may lectures in the section of the work of the control and the control a

social salence made simple strained size and the manuforger at the LSE strained first work the region and the strained first which against the strained first work the region of the late Richard Titmuss. Her study, to be published by Oxford of lands of the control of the strained for some pears both as it it will said for some pears both as it it will said for some pears both as it it will said for some pears both as the minjor hogrophy of Beveriuse, who died in 1953, oud as an extended easy, on the sociol iteories held by someone who can insity be called by someone who can insity be called on the control of the wolfers state.

Dr Harris's subject, a fighre of controversy and scondal when at the LSE, and a popular hero in towar years, when his report confised a bright futnee, may have foded positive polley, an important solvence of "policy studies" on of positive polley, an important solvence to for policy studies" on of policy studies of policy studies on of policy studies of policy studies of policy studies of policy studies of policy studies

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STUDENTS STUDYING FOR RECOGNISEO QUALIFICATIONS AT GRAN'T-AIOEO ESTABIJSII-MENTS (4)

Department of Education and Science

BASIC FURTHER EDUCATION AUGUST 1977



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Stanley Hutton and Peter Lawrence discuss the British Association's report on engineering education

Getting engineering back on the right lines

THE TIMES HIGHER EDUCATION SUPPLEMENT 9.9.77

The report on "Education, Engineers and Manufacturing Industry" for the British Association-Coordinating Group, which has just been published by the investigating team at the University of Association and which was discussed by the British Association earlier this week, is particularly welcome methree grounds: the importance of the issues; the seriousness of the treament; and the marshulling of relevant information.

The mainise of mathematics teaching in schools—including the early dropping of mathematics, teacher shortages, and syllalms disparhies—are highlighted in the report, as are the implications for the recruitment of engineering students. Treads and problems in the production of cogineering manupower are examined in detail, and attention is drown to the fact that substantial numbers of qualified engineers oppear to be underengineers oppear to be under-employed in industry. There are strong recommendations for inde-quate (technical) career lines for engineers. The report also notes the weakness of industrial design.

The report, however, is not only of value because of such positive diagnoses and recommendations. It also serves to open up crucial

Learning under Ideal conditions at Stirling University.

thus somehur "danged to disadvantage". The absolute monker of engineers in this survey corning more than £10,000 is higher than for all the other groups except for the non-research physicists and chemists. The fact reduints, however, that in terms of this salary data the accountain is nearly three times more likely than the engineer in earn more than £10,000 p a, and the larryer is more than four times mure likely to do so.

In the discussion of the salary

in the discussion of the salary issue there is also a tendency to take refuge in the fact that in large organizations salaries are often determined by job evaluation schemes, engineers being treated not as engineers but as job-holders along with non-technical colleagues. This is possibly a sidesten, Job evaluation schemes are total aliving execution but the work of men, and in this case of men kring in a society which, in the worlds of the report, "has a low opinion of engineering us a profession".

Finally the report draws attention

engineering us a protession.".

Finally the report drows attention to the declining narput of engineers from the ONC-INC courses, but it shaply recommends that teachers shand do more to ensure that school leavers are sware of the avoilability of the certificate and diploma courses.

Let us make an explicit foreign

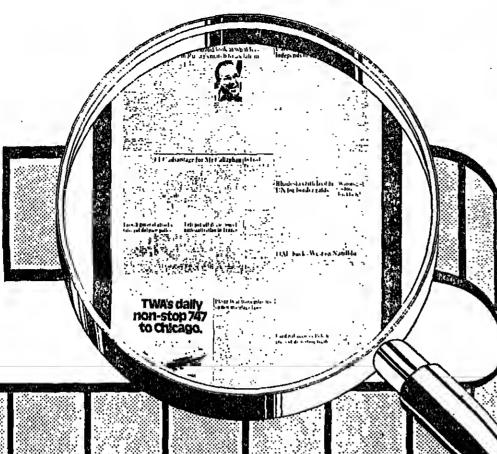
figures to open up crucial issues for wider discussion. Should be the conditions of the field to condition of the field to conditions of the field to condition of the field to condi

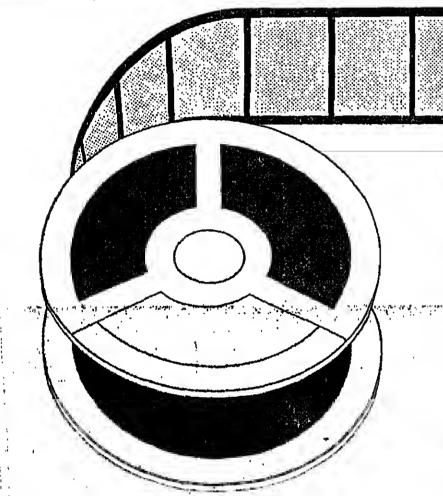
Can universities adapt to changes in the schools?

The temp years after the Rubbins are considered to the construction of the constructio



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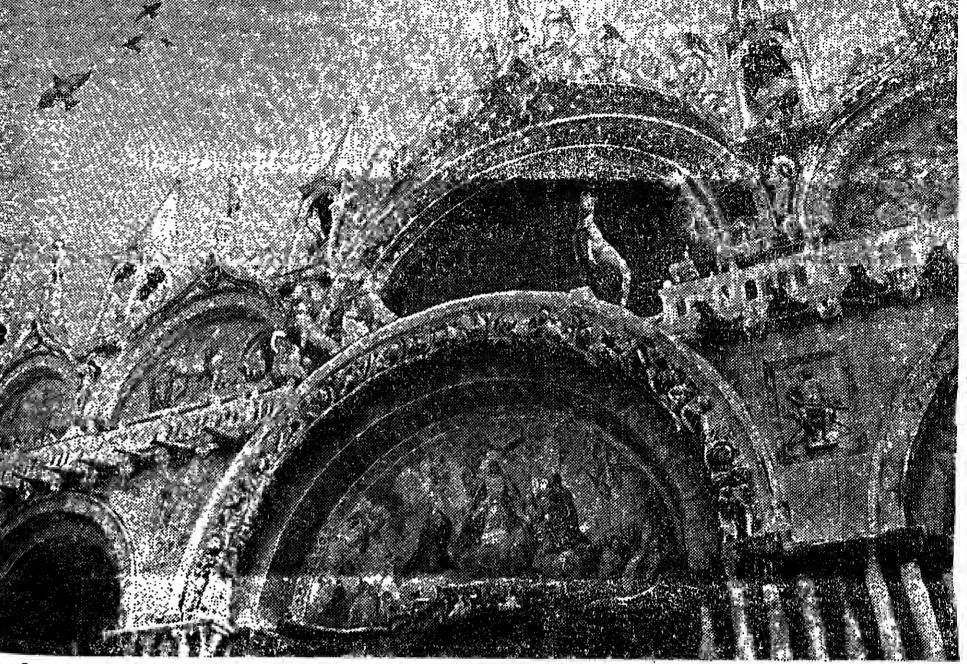
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Cuts called for in range of Masters' degrees

hady that represents and coardingles | quietly progressive southern State, was to be the main concern. postgruduate education in the thrse universities have created in upwaceful park the largest research United States.

different types of Master's degress. States.

Of thess, 124-61 per cent of the Research Triengle Pork ls a intal stumber—are offered by 110 more than one institution.

fields. The most common are the Muster of Arts in Teaching and Muster of Musle Education. But the major activity south of the Masonsurvey also listed Moster's degrees Dixon line. In : extension education, food sci-

This proliferation of noncuclature leands to chaos, the council believes It also suggested that for professloual degrees, such as the Muster of Business Administration, Master of Music and so on, the appropriate degree should be awarded without specifying the particular field in which graduate study was com-

The survey covered 460 instlinsome public and some private, a awardad Moster's degrees. It found that another area of rapid proliferation was the sociol sciences. Some 255 colleges and universities now award a Master of some spanning of tield—administration of justice, asronautics and astronautics, behavioural studies; church adminis-tration, forcusic science, general studies, human dovelopment, incr-disciplinary studies and laws in taxation—to nama a few.

The most common designations are Master of Public Administration, Master of Social Work and Master of Library Science. What is most olarming, the council says, is that there are S2 different degrees which are all offered at only one institution.

warranted" spread is most common at State universities which also offer PhDs. It is least apporent at private universities where the Master's degree is the highest degree awarded.

"Many of these were presumably established to provide specificity", the survey says. "However, the question can be raised as lo whether the recipients of little-used degree tries are placed at a disadvantage slace the unture of the programme and the standards required are not widely known."

The council thinks four broad categories should be enough:
Master of Science, Master of Arts,
Master of Business Administration
and Master of Education. These still
do account for the bulk of all
Masters' degrees offered.

mid Master of Education. These still do account for the bulk of all Masters' degrees offered.

Dr Boyd Page, president of the foundil, said it had long been a tradition in the United Stetes—as in Britain, West George and else the profit motive was fulfield. The profit motive was fulfield in the profit motive was fulfield in the profit motive was fulfield. The profit motive was fulfield in the profit motive was fulfield. The profit motive was fulfield in the profit motive was fulfield. The profit motive was fulfield. It began humbly with 35 specificity, Graduite descree did not trade profit making promoter and the profit making promoter and trade profit making promoter and the profit making profit would divided the whole structure if we were required to outline exactly what a person was trained to do, he said.

About 300,000 Masters' degrees are awarded each year in the United States. The overwhelmingly majority still use o simple designation. But in recent years the emphasis on vocational education and the oalla from the US Office of Education for more training for job skills has probably induced more universities to be specific, and encouraged those who would like to see degrees outline the areo of knowledge of their holder.

The problem is less acute with the PhD—both because it is generally accepted that this higher degree does need a little more defaultin, and because the pro-liferation has been less morked,

Michael Binyon, North America correspondent, visits of the most unusual academic complexes in the United States

A "ircmentious variation" in the United States is not in the unity those bodies whose lusiness only the large inclustrible chief. It is an only those bodies whose lusiness only those bodies whose lusiness only the large inclustrible chief. It is an only those bodies whose lusiness only those bodies whose lusiness only the large inclusives in the United States, and the large inclusives in the United States, A recent survey identified 203 but in the whole of the United

remarkable phonomenan, and one that is being eyed with cuty by more than one institution.

In the field of education, for example, there are 159 institutions awarding a Master of a specified fields. The most common are the

As its name Implies, the park in: extension education, food science, health professions education, home economics education, mursus education, professional studies in special education, secondary teoching and 10 others, all of which were offered at only one university.

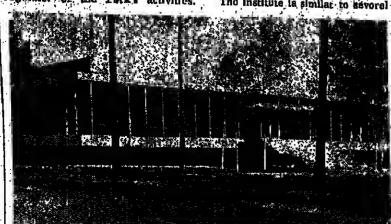
As its mane implies, no purk towns: Rnleigh, the state capited towns: R among the pines are research laboratories from some af the most presilgious influstrial, governmental and academic organizations in the

llurroughs Wellcome, the British phurmaceutical firm, has its founda-tion's Americain research head-quarters here, 18M has 1,000,000 square feet of laboratory agase nud Becton Dickiuson, Monsanto, Her unles and other pharmaceutical and textile firms are here.

The National Institute of Environmental Health Sciences and Environmental Health Sciences and the Environmental Protection Agency have their permanent had quotiers on the park, The Nated States Forestry Service are represented, the Chemical Industry Institute of Toxicology is building a new head quarters, oud a well-andowed new National Humanities Course has just amounced plans to move in.

In all there ore some 25 research

In all thers ore some 25 research meganizations, employing 12,000 poople, on the park. Almost every week o new one wants to Jolu them. But though the 5,500 acre pork is still only one third full, only insitutions juscing the exacting condi-



Technical centre of the American Association of Textile Chemists.

Research park where the grass is already greener

was to be the main concern.

This foresight has paid off. The park looks liks and increasingly functions us a single entranous campas, and it is this carefully controlled environment that has made it so attractive. Well-qualified academics have been lared down from New York, Hoston, California and without and increasing acquaints of largaing. other traditional centres of learning.
The rule of the sponsoring universities is crucial. Many of the researchers, especially those in Federal and non-industrial boiles, are

career academics on temporary secondment, and most hold ndjunct professorships at one or other of the threa universities.

The arrangement is mutually beneficiol. The universities gain the experience and tenching of some of the leading experts in porticular fields. The academics maintain an arrangement of the property of the pr anbroken record of university appointment which is almost essential if they are to re-enter the university world. And through their university enfluections many of the reasarch organizations are quickly alife to contact other academics

complexes in the United States. But It has several indvintages. It came along at a sime when national priori-ties hull shifted from engineering, defence and space technilogy to what its director, Dr George Her-bert, called "quality of life" areas: an the park could raise difficult for the universities. Although

health, medicine, education, drug abuse, crime and the environment. largest in America, show the fifth hargest in America, showed on 10 huildings in the course of the huildings in the contro of the park.

Many of its clients are its neighoouts, which contract out wink
needing special equipment or wint
duplication of some of their own
work for comparison and control.

The instituto's statistical work is
particularly important: it is

The instituto's statistical work is particularly important: it is engaged, for example, in a masive stavey for the Federol Government of whith American families spend on health enre which will form the data basa for all future legislation on this key issue. It also runs a peridoic national ossessment of educational progress, a longitudinal (though for administrativo and postical reasons they could never be cational progress, a longitudinal study of the class of 1972 and a survey for thes National Associantics and Space Administration of the application of space technology.
Officiolly each institution on the

The preside of some of the work

good, the universities are not quit in the same league as America foremost research universities, not do they yet have the same interes tional requitation. They may soon flud they will be living in the shadow of the child they created shadow of the child they created Dr William Friday, president of the greater university system of North Carrollna (and Presideo Carter's original choice to head to Department of Health, Education and Welfure) those not see any future conflict. He sees the part eventually becoming a single and demic universities, each with complement

tical reasons they could never fur into one institution).
Till now the park's research by been henvily scientific in arient

purk is a self-contabled entity. In practice, relations are close, the exchange continuous and the informal contacts of enormous importance.

Many of this industriary illustriars are self-contacts are self-contacts. The centre is the third of a the self-contact is the industrial contact in the information of the appear to the industrial contact in the information of the appear to the arrival of the appear to the arrival of the appear to the information of the appearance of th



hy neademic discipline or simply living together on the same limis

The futuristic Burroughs Wellrome hendquarters.

still only one third full, only institutions useting the exacting conditions of the park's urganizers are allowed to set up shop.

Research Triungle hegan in 1956, the result of imppy gengraphic that historic coincidences, the enthusiasm of three nearby universities and the determination of a respected governor of the State.

For many years the main industry of North Carolina, n relatively poor State, had been the education of other State's students. By cholee, out of an impressive network of 80 colleges and nuiversities, the three oldest—Duke, a private university, worth Carolina State University and the University of North Carolina, the first Stata nuiversity in America—were clustered together, one in each of the three towas.

Between them lay unused land. Governor Luthor Hodges encouraged the universities to act up a joint research institute as a magnet to attract industry and make moucy. Finds were raised, e Foandation was formed, land was hought, and the busices invited academically oriented companies to take advantage of the university facilities.

Were the same rime, the universities in oriented consulting and the same rime, the universities in outside consultants, which makes a job nt Duke, UNC or North Carolina a job nt Duke, UNC or North Carolina the universities gradually to raise the nuiversities gradually to raise the universities gradually or also the stundends of their teaching staffs—It has given some the weaker departments healthy in the weaker department may be a feet of the weaker departments working in the same field elsewhere. At the same time, the universities enn offer their own employees the

haboratories in direct competition with each other, particularly in computing each other, particularly in computing each pharmacouticel research. This raises the question of accurity. The chances of letin galip cumpany secrets ore increased by proximity and personal friendships. Millions of dollere are et stake and there is elways the risk of unethical behaviour.

smad friends, brought together encourage serious research is the hamanities, great efforts were nate in attract It in the trimple. The Foundation even denated the lad They know that if a piece of equipment breaks or is sublenty needed they can harrow from each other. They have an apportunity for face-to-face conversation with people in the forefront of their disciplines, and, as the John Kuelson, director of the Environmental Protection Agency's luboratory reand drummed up the surprising state, the universities and else sinc, the universities and eisemore for his gart, Dr. Charles Franks, professor of philosophy at Columbia University and full-time director of the centre, was determined to there, though 19 other sites were offered. Dr Fronkel has a fow novsl pri

director of the Environmental Protection Agency's Inboratory remarked: "I havo this reassuring
abstract conviction that I can sit
in my office and cull on any af
those scholars out there," another
director, Dr Al Shan from the
clinical equipment firm of Becton
Dickinson, said it was rare for him
to have to go outside the purk.

The respects healter there Dr Fronkel has a fow noval proposals. One of the most luteression will be a deliberate ettempt as recreete the high-table cross-disciplinary luteiloctual discourss of the Oxbridge college. The heart of the luvishly equipped now contra will be the dining room. A good kitcher will be in constant uso as safeted groups of scientists, research workers and laboratory directors one brought to dine with the visibing overseas humanists on one-year fellowships of the centre.

Inevitably the influx of 5,000 fouilles from the most highly educated segment of America has transformed the cultural life of the three small towns bordering has purk. But this same influx of so purk. But this same influx of the from the old established North from the old established North The research bodles themselves do much to promoto the luterchange, They run a vast number of seminars and public lectuces,

Ithe park are varied, there are laboratories in direct competition with each other, particularly in computing each pharmacouticel research. This raise athe question of accurity. The chances of letin gsilp cumpany and personal friendships. Millions of dollere are et stake and there is elways the risk of unethical behaviour.

Research Triangle Park is strong in basic science. Burroughs Wellcome, wbose futuristic building hes elmost become e symbol of the bark, is perheps one of the commorcial componies; most committed o basic research. Being a non-profit pressure for quick marketable results;

But the compony has olso found an open-cuided research policy in biology laboretories oto among the bespeculpped in the United States, and the park is worth over \$300m. This has only recently the end line plant now losted with results. It is not in the perk employees in the clear to the local community is the clear to the income of the committed or the perk's employees is \$17m. This has only recently the end by other \$300m. This has only recently the end basic research. Being a non-profit in successive can deplete the park is worth over \$300m. The simple foundation helps: there is less only room fot one or two subjects of the carolina got the park is successive director of the Research besides of the United States, and the perk has contained the park has contained to the perk's employees is \$17m. The park is worth over \$300m. This has only recently the end by other \$300m. The salked by other \$100m. The simple foundation is now other university and the park is worth over \$300m. The salked by other \$100m. The salked by other \$10

restricted idaces, had to send in applications. The result has been things in many parts of the country. Universities and colleges were besiger with inquivies, mostly from pruspective students mable to interest and the complicated coded application forms and thick contset.

The success of Fianua Fail in capturing in the law times general election has led so far to one impuritant change in Migher education.

Migher education.

Minister for Education, announced shartly after taking office that he hair of the particular of the National Countil for Education. approaches in Scandinavia.

general election of prime minister this weekend, and, in Denmark talks are going on between the Prime Minister, Mr Auker Jorgensen, and leaders of the Liberal, Conservative and Radical parties in an effort in broaden the property an effort to broaden the seven-month-old, Social Democrat-domithe ostion's economic ills with a

The consequences of the Swedish pelarm stopp will not be clear until negotiations over the annual ludger negotations over the annual magazine for his year beginning next July get ander way this annual. Must of the reforms inherited from Mr. Palmo's Government last Uctober have sheady been agreed on or However, their progress may be slowed.

As the new academic year

devaluation and entry

campus concerns.

procedures are the main

The mojor reform of higher edu-cation (U68) came into force at the beginning of July (THES, May 1-1) and although a got off to a choosi-star, the education unbuster. Mi-Jan-Eilk Wikström, is committed to seeing a through. sceing à through.

He has also said that the theverpnem latends to said that the theorem and latends to see up or countries in during the maxt year to work on plans for bringing all post-scondary eduration to direct control of the stime. At present about one third of study places—mainly in the norsing and welfare work sector—are in local outhority responsibility.

Nevertheless, but the first present also a sector—are in local outhority responsibility.

Nevertheless, budget proposals for 1978/79 prosented last week by the Notional Board of Universities and Colleges oro much more conservative than hoped.

Although spanding will rise by 247 S.Kr (£29.1m) to 2,756m S.Kr, 65 57m S.Kr of the increase entendance for innovations is only built much as originally planned this sping.

Pay up' ultimatum to student loan defaulters

as the naw acodemic yeor hegins are threatened with legal proceedings if they continue to evade repayment of Government loans have already retained a letter of the students have already for the students have already

me have acodemic yeor hegins are lineary of the legal proceed for the present of the present of the present care into a present of the present care into a present care into office. The new threats of legal ection for Serging the present care into office and the present care into office. The new threats of legal ection for the present care into office and the present care into office. The new threats of legal ection for the present care into office and the present care into office. The new threats of legal ection for the present care into office and the present care into office. The new threats of legal ection for the present care into office and the present care into office. The new threats of legal ection for the present care into office and the pr

found borrow this sum interest free accompanying letter indice from the Covernment and repayable willingoess to "pay large"...

Currency crisis halts Top validating body reinstated

Minister for Education, the new Minister for Education, announced shortly after taking office that he intended to reconstitute the National Council for Educational Awards as a degree specification.

amplis concerns.

Mike Duckenfield reports

STOCKHOLM

The new academic year in Scandisaria is being overshadowed by last week's "stabilization programme announced by the Sivedish Government. As well as the 10 percent devahuation and two-month price freeze, the Centre-Right Coalhiour's ousterity packags will mean an end to most social reforms now in the pipeline.

Because of this inter-dependence of the Nordic sconomiss, the Snedish measures precipitated lesser devaluations of the Norwegiant. Danish and Finnish currencies.

In Norway, the Labour leader, the Oddar Nordili, faces his first general election os prime minister this green and minister, the Poline of the Poline of the Poline of the Norway of the Norwegiant. Danish and Finnish currencies.

In Norway, the Labour leader, the Oddar Nordili, faces his first general election os prime minister this such as the poline of the Norway of the Norwegiant. Danish and Finnish currencies.

In Norway, the Labour leader, the Oddar Nordili, faces his first general election os prime minister this such days are going on between the first the proposal of the Norway of the Norwegiant of the Norway of the Norw

Demand has been especially high in economics with Stackholm getting 900 applications for 24th places, ond Land getting 565 for 200. Both universities will prahably have to restrict entries due to a lack of teachers and facilities despite the fact that the course is officially unrestricted. Similarly, lotterics have had to be used to decide entry to many shorter, part-time courses. The big jump in demand has also caught theauthurities dealing with student students are having to wait a minhamm Australia **Applications** pour into new medical school

dents are baying to wait a minhum two months for their state loans and grunts and several hundred are hunteless.

In Denmark, where this nummn sees restricted entry to all faculties for the first time, only universities have reported a lower than expected demand. Copenhagen University, the largest, with 3215 first-year places, rompared to 4,860 last year, has only had 4,490 first-chuice appliennts.

The patern has been common in The patern has been common to all five universities and most markedly so at radically oriented Roskilde. There, only 140 first-rholce upilicants sought 134 places and total applicants only camo to .Pto. However, at technical and professional culbyes—the intended growth area in higher education—the reverse has been true with 1,200 first-choice applicants seeking just under 14,00 liplaces. Overall, of all applicants for higher places this autumn, about three-quarters are expected to be quarters are expected to

In Norway, figures are not yet known, but it is expected that about 111,000 new students will curol. Oslo one change that will be made for lent spring in the hondling of student spring time, all students. This year for the first time, all students, and not just moss wishing to enter courses with

pendence to the constituent college, of the National University of Ireland in India, Carls and Galway, in example.

arate from the serinary, governed by a council on which the trustees —consisting entirely of Catholic Bishops—would be a small minority.

The position of Trinity is now which the Coalition wanted to move to University College, Dublin, are unw virtually certain to remain.

The recommendations that the National Institute for Higher Educations should be linked with Galway University and Thomand College of Physical Education with Cork University are less likely to be odopted. Instead, the Higher Education Authority is understood to investing argued dut the NIHE and Thomand—which are on the same campus. —which me on the same campus in Linterick—should userge to avoid duplication of facilities.

A mojor talking point remains the future of Maymooth College, which has a duot role as a recognized college of the National University of Ireland and as Ireland's largest Catholic seminary.

increase of 20 per cont in the num-

ber of teaching stuff, 17 per cent

in the number of first-year students

and 49 per cent in the total unmi-

ber of students (from 587,000 to

These figures are revoaled in the

Additional factors-for example,

The position of Trinity is now more assured than previously hocause of the election and promotion to ministerial states of the election and promotion to ministerial states of the of the professors. Martin O'Danoghne, former economic adviser to the Finanta Fail party. The faralties of Business Studies and Sacial Studies, which the Coalition wanted to move The situation has been made more olismissal of two lecturers earlier this year by the college authorities. ITHES May 201).

The trustees claimed that one of the lecturers. Mr Malachy D'Rourke, had forfeited his right to teach by hecoming lucized lust year and thut the order, Professor P. J. McGrath, had published articles which had brought the church into discense.

discenule. The dispute has already provoked the first-ever strike by academics in the Republic and the lecturers' union, the Irish Federation of University Teachers, is determined to fight the cass to the cub. So far that a duot role as a recognized college of the National University of Ireland and as Ireland's largest Catholic seminary.

The working party recommended that Maynooth should become an imbependent university, entirely septimized by the case is heard, probably in November.

'All-in' campuses to get bigger share of places

by Giinther Kloss

Sluce 1951, when joint Board-Linder Australia's unwest medical school medium-term planning for the ex-pansion of higher education was hus been floaded with upplications from hopeful students within a few initiated, 218,000 naw student places days of a warning that the country have been oresied, representing on Increase of 46 per cent in apace dactors. avallable. This compores with an

SYDNEY

from William Purvis

The warning came from Dr Pau Cross, chairman of the Vederal Illus-piral and Health Services Commis-sion. He said a surplus of ducturs was already becoming ovident in two of Australia's six states.

Undeterred, more than 2,000 peo-ple have applied for 64 places when Newcostle University Medical School

oftens its thous next year.

Admission to the school will not be bused solely on academic prowess. Thu 64 places will be placeded ess. Thu 64 places will be allocated in two graups or streams of 32. One stream will be chosen purely on academic merit—the top 2 per cent of Higher School Ceriffente (HSC) pupil candidates. Criteria for the second stream will include teachers' ussessments for school-leavers, tests of personality nod creativity lavels for older applicants, and personal

interviews.
The performance of the two
streams will be monitored to compare the echlevements of the "academic" group with those from the aecond stream and evoluate the selection process.

The committee expects it may take up to 15 years to get a conclusive auswer to the question of whether there is any significant

collating of dato in a federal systent, where each Lund adheres to its "cultural autonomy" is diffi

Toking account of these limitations the seventh Rahmenplan says that two-thirds of all student places (always in tecas of area par student place) were la 1976 at universities with comprehensive universities having 4.2 per cem and

colleges of education 10.7 per cent. Among subject groups, arts-type subjects accounted for over twolifths of existing places, engineering for 18 per cent, natural sciences seventh Ruhmenplan (General for 16 per cent, and medicine for Bulldings Programmo for Institutor 7 per cent. The most rapid growth tions of Higher Education) for the occurred in subjects to a teaching years 1978 to 1981. It is the lotest qualification (33 per cont), medicine in the rolling four-year programmes (33 por cent), engineering (29 per of the University Bidhilings Planning Committee, which is solely con- cont). Roletively speaking, artscerned with student places in terms type subjects grow least (20 per

of the required aree per student, cent), Under the lotest plan the share stuff hours availeble end utilization of the universities and colleges of of rooms-ere needed to determina education in places will drop, and the student capacity of on institu- that of compreheusive universities tion. Coordination between these and vocational colleges will rise. different criteria is attil unsatisfec. Relatively more places will be protory. Currently there are around 20 vided in economics and sociel per cent mora students then the science subjects, rolatively fewer in oveilable eree pec student pince arts-type subjects. Scionce and would suggest. coglneering subjects will slips the

As far as the latter is concerned greatest growth rate, 15 pec cent. difference in outcome between the two streems.

The committee again reaffirms its more refined and differentiated critical applicants who survive the initial screening process comes in the searly years. This period charsed and residential offer two years. This period charsed in September. These applicants for the second stream and residential requirements will be invited to spend at alay on the campus during the second stream and residential requirements will be invited to spend at alay on the campus during the total number of student places for 1985. Effectively the second stream planning the searly years of its exterence. For example, horans of the committee state of its exterence. For example, horans of the committee state of its exterence. For example, horans of the committee state of its exterence. For example, horans of the committee again reaffirms its more refined and differentiated critical and during the committee again reaffirms its item containing the committee again reaffirms its more refined and differentiated critical and during the committee again reaffirms its more refined and differentiated criticals and during the committee again reaffirms its more refined and differentiated criticals and during the committee again reaffirms its done than during the committee again reaffirms its done to again many old buildings are involved ming target of the current 1978 lo which at the time of construction were never subject to such criteria, partly because the collection and 1981 plan is 128,000 new student places, including 31,000 places, which will only be completed ofter

opened to limited numbers of white post-groducte students, bu the University of Burban-Weatville, with a versity of Burban-Weatville, with a wide range of spocialized courses in Ielanic and Orientsi studies, is expected to be opend to oil white students.

The university's rector, Professor S. P. Olivier, producted that the atudent population would grow from 4,000 to 10,000 by 1990 as a result of the new disponsetion.

G. عصور 8

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The right formula for a maths problem

tional judgments on which it is drawbacks, based. Nowhere are the Issues raised of our active importance than in celating performance at school to article in page 7, performance at A based. Nowhere are the Issues raised that at university; and it is sub-ject are they more acute than in mathematics, accapying as it does a particular for smallers of lower

developments in school multicumies tooching, have undobatedly given rise to major problems for university teachers, many of whom have lo accommodate students coning with a wide range of background knowledge. Referring to this problem at the British Association's meeting in Hirofughan lust week, brofessor John Crank of Hrinel University suggested that the solution ought lie in instituting a "core" paper in A level mahematics, an adequate performance and which would be required of all sindents.

Such a development would undobatedly assist nuiversity markethase of knawledge which all students could be assumed to possess. It would be naive to lignore the subscited which all students could be assumed to possess. It would be mained to he objective charalound advantages about the problems this obscuro the important, social choices which are also of stake.

tages should not be allowed to obscure the important social choices. Which are also of stake.

The proposed for a core mathematics paper atompts to sliff part of the responsibility for a student's perfurmance ned achievement in

"more means morse" formula that And this is a move which, nothnith-belles the complexity of the educa-Council, could have two major

unathematics, accapying as it does a key position in diodern scientific and ragiacering carricula.

The plethorn of mathematics chastly to the first, is that variations in A level performance on a devolorments in school mathematics variations which are due to social variations which are due to social and the social variations which are due to social variations whi

that the most educationally effective solutions at the problems this ranses are necessarily the most socially desirable. Universities must look to hele own teaching policies, as much as to the structure of school examinations, if subminished which are both effective and desirable are to bu found.

Process in slow motion ... or in other words

"It may be helpful to look upon for knowledge transmission and structure as process in slow motion. transaction." We have argued that thetrue course "Shane, really, when it's the true of concern in higher education contra of concern." indeed its defining activity—is the "Indeed, the defining activity enterprise of teaching and learning "As Becher and Kugan urgued." enterprise of teaching and learning urgued." (variously seen os knowledge, trais- "And Embling." (variously seen os knowledge, trans-udssion and transaction), along "And Embring."

No, he didn't write that bit." and soin and transaction), along with the closely associated cuter-prise of research as knowledge (variously seen as knowledge generation). It follows that any attempt at fundamental hungovement to the system and policies, and the process in slow one to the immediate context in which they are embudied. The larger of sostimional structures should be designed to reflect process and must in consequence be regarded as subsidiary and subservient to their winds and social worker but in rery goan attructure should be designed to reflect process really attructures and substrain demands the mass really and social worker but in rery goan attructure should be designed to reflect process really attructure should be designed to reflect process really attructures as a subsidiary and subservient. It attents to reflect process really attructures and substrain designed to reflect process really attructures and substrain designed to reflect process really attructures and substrained as subsidiary and subservient. It attents the respect that the professional superiors in Newhorn, where he is working us a social worker, think that underly designated in the processional minimally designated in the first that bit. S. Yyus to due Certificate of Qualification in Social Work course of Mr S. Yyus to due Certificate of Qualification in Social Work course of Mr S. Yyus to due Certificate of Qualification in Social Work course of Mr S. Yyus to due Certificate of Qualification in Social Work course of Mr S. Yyus to due Certificate of Qualification in Social Work course of Mr S. Yyus to due Certificate of Qualification in Social Work course and policies. For idea Mr S. Yyus to due Certificate of Qualification in Social Work course that the notional substrain of the fairly. But I used in Clurify my personal position. I out whigh Mr Yyas, and I think that the attitude of the fairly. But I used in Clurify my personal position. I out whigh Mr Yyas, until think the polyscenic. For the link that the attitude of the fairly. But I used in Clurify my udssion and transaction), along "No, he didn't write that bit," write that bit," "Auyway, I don't mink much prise of research and scholarship our purposes and policies." this is interaction between the force of ministry or othe familiar or other hands are constrained detections in which they are constrained detections and the familiar of the constrained detection of the familiar of

"Indeed, the defining activity."

LETTERS TO THE EDITOR

This suggestion, however,

ties. However, I would want to be convinced that there is a substantial

demand by able students before embarking on any such yourse develop-

Department of Physics Mathematics and Computing, John Dalton Faculty of Technology,

Sir,-It was encouringing to see the

Brillish Association committee recommending the relaxation of one

G. RATCLIFFE

why not buth?

local colleges. Yours faithfully, K. L. STRETCH,

l Munne Close, Ashliy-de-la-Zouch

Engineering applicants

Sir.—The recommendation of the Clearly, students who had not done British Association for Advances A level physics would, in fact, find trust opinion pulls. The Rock entrance requirement for engineering degree courses and your editorial comments (THES, August 26) on this summers would be in make on this suggestion cause mo in query some of the assumptions made on this legac

while the treatment of the transfer of the tra informer "good "A levol will flock to engineering degree courses if given the chance? But these puren-tial engineers xist? If thy do then perhaps someone mill inform them that there are mony good engineer-ing courses at onlytechnics and coling courses at polytechnics and col-leges of technology for which they are already qualified to entee— nonely Higher National Olphonas

in engineering, Furthermore, it is possible for smilents who do very well in the first year of their HND course at a poly-technic to trousfer to the second

a nonsense simply because physics is the study of energy and engineering the study of energy and engineering the study of the efficient utilization of energy. In addition, the relevance of physics to engineering is reinforced by the fact that many graduate physicists are employed as engineers and often become mentions of professional engineering lustitutions.

Institutions.

All engineering courses involve practicel work and usually project work. These activities require many skills such as measuring graphical work whiter my us well as sume work, wiring up us well us some previous experience of scientific mothal. These skills are usually acquired via A level physics.

Poly non-admission

Sir,-Your leader (THES, Septem-

ment of Science report Education, first year laboratory work on a topic opinion polls. The Rocce engineers and anatomic toring industries of the engineering course impossion of the engineering policy in the engineering course impossion of the engineering policy in the engineering course impossion of the engineering course in the engineering course impossion of the engineering course in the engineering course impossion of the engineering course in the engineering course impossion of the engineering course in the engineering course impossion of the engineering course in the e to the problem of relaxing entry twelcomes may properly confectional financial would be to make sorrey to obtain the rious of surrey to obtain the riens of physics currant. The first year would that nearly all have lank some need in be a conversion course covering some of the work usually

many implications. Universities are cortainly not physically equipped to do this level of work, and time spent on such work would probably be at the expense of research. Poly-technics would probably be better sulted in do these conversion course; because they are experienced in teaching to a wider spec from of vances and student abil

of the uninditory A levels for entry to oughneering courses (THES, August 26). But might one query the tenching profession.

We hope, therefore, that notes will be misled into thinking he many university fectorers feel had their current earnings are "fat. Many, after all, bave given up will arise in 1975. We believe our conseil to be representative of wirestly staff opinion and to quote pare report on its last meeting... It as in militaar monal. While no into in his sensus triuld dony the impurtance of indequate numeracy for engineers, it is time engineering departments realized that many potentially-good candidates are prevented from obtaining their preferred A levels b yrandom o revolential A teres to yournament of revolential defects in the schools, Rigidity in entry regulations then contributes in he inability of the in militant pougl. Yours fuithfully,

J. R. AKKER, Deputy General Secretary (Designated), profession to attract an adequate proportion of the height school Association of University less. London, W.11. for high quality conditates, is not difficult. This can be done either by special provision in first year

Grant for the WEA

ay special provision in this year ingrees or, even befor, by our ourag-ing them to do an intermediate year in industry while unking my ground Sir, Sarah Segrue, hi her midt CTHES, Segrember 21 draws ausmathematics and physics in the form to the new grant orangement which has been intraduced for the Workers' Educational Associated by the Department of Education

thirling the past year.

The teaching grant which he association had for so many year had increasingly provided inade quant fraucial usal-statuce for the work being promoted and during recent years had resulted in an uncertainty which made planned derelopment impossible. The association has, for some thro, been pressing for a grant which recognized the reaching and promotional costs. These promotional costs have hecome more important with the association's development of the special work recommended by the Russell report. sufficiently appreviate that it is dealing with a formally designated

Wichael Posner, chairman of the SSRC'S anel on energy, on the need to bring cademics and policy-makers together

Dittle faith in cademics and point opinion polls Energy Studies: how topinion Pull ITHES, September in trouble seem to indicate that incademics can be indicated that incademics is well founded. The number of the founded in th versity stuff. Where would get open government without knowing from your san open government

without knowing frum your say.

It is a nearly all have lank some and the theatre or ones, and to eight times a year.

In owever, the poll may hove a figure of the university profession much have been far more said for the sample from which all the survey serlands, we led to start to the survey serlands, we led to attention must be drawn to be year, which was discussed by the SSRC earlier in this survey serlands, we led to attention must be drawn to be year, which was discussed by the SSRC earlier in this survey serlands, we led to attention must be drawn to be year, which was discussed by the SSRC earlier in the survey leself.

The sample from which all the spring.

The sample from shich all the spring.

The sample of the "initiative". Examples on the research initiative.

This traditional "liberal" paradomitation to the Research Initiative.

This accordant public goods," lich should be research countries out the "initiative." Examples on the research enurity and the prostories in scientific or engineering the proper said that the spring.

The sample from the research to histories of the the reflect of the sample from the spring the spring the proper said that the spring.

The sample from the research to histories or harder for university services or harder for university services and scientific or engineering the sample of the spring.

The sample from the research to histories or harder for university services and grant-givers has much to commend it, but the rules shifteness with the variety of the services of the survey of the

a their research activity; the likely patern of energy choices that high be facing the country, and has the should be resolved; and the way in which such social science reserch might be allowed to have

a effect on national policy demallers, and I would sice we that men matters, and I would steess that not conly me the views expressed below my own, and not those of the SSR' or any of its cononinces, but relso that my view on some of these maners are highly tomative and subject to change. The prime object of this article is to provide dissipation of matters which is before to be of considerable superfunce.

importance. to me list express the quite gong exputer of those who believe that the role of the SSRC takes research councils) should be largely passive—that like the googybal Victorius ladles, they should estill and think at more please things.

the bleed of all the various to be been compared to the profession of the profession

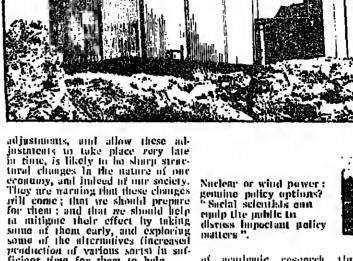
of energy over the last few years, and the prospect of further large thanges in the future, it would not the prospect of further large thanges in the future, it would not the belief and rueful realization furcase in the degree of scaleniry effort put into energy associated topics.

Doubtless that will hopen in the one of the probing

Dambiless that will happen to in equip them with the probing ime, whatever the Father weapons required for fils purpose. time, whatever the Father thristmases decide to; but a judichous degree of coaxing, urging, and proselything may speed up the reartion time. It is in this modest role of cutolyst that my colleagues and I on the SSRC panel cost our

and the incomplete of the series of the suspicion that all ritizens of beliegained titles inight feel when observing treeks having gifts, will find our recent report suggestive of fruitful lines of academb: en-deavour, (Energy Inples by the social sciences, a report to the Research Initiatives Board of the SSRC, Copies available on request

The energy problem



ficient time for them to help.

of academic research thre-the ma leave the hady of the research actual problems of public policy

The "energy experts" are not necessarily right along all this; 1 remember a contrasting consensus about a decade uga, when every nil commonly expert and every ministry of foreign affairs in the Western Shapid academic work merely help to influence public apinion. debate? Or should neadenties seek world asserted roundly that the tiPEC cartel could never hold, and to play a more direct role in the traditionally rather closed curridors

There is no doubt that the apendess of government, it least in the field of energy policy formulation, has immensely increased in recent years. The stream of papers emerging from the Department of Energy, some of them official papers, some of them from the rarious semi-officlal committees depending from that denurtatem, is ulready impressive.

Ar Tany Beth's upon energy form last year yeas perhaps not an anniligated success, since it brought same of the wrong questions to the surface and heped to delay some decisions. (An example of the same seen of beau were the of the arming sort of Issue was the unbecoming series of squabbles be-tween the nationalized industries; discussion productively.

If this is true of domestic policy, it is even truer of international affoles, where our approach to relational marked our refreshing change.

it is even truer of international affairs, where our approach to relationships with the Arah powers, inwards the energy problems of the less developed countries, and inwards the recent disputes uncountries and the Duited States, is construed unlike Duited States, is conserved uniformed.

This openness of government is partly a uniform this openness of government is partly a uniformed children construed craft, even from his consumants. It also mises from

A reasonable flow of people in

the repartment of Phergy, and Imo-some of the public corporations and international oil companies, on a loan hasis would be very valuable to all parties. It would also do much to keep "adversary politics" out of this uren of our public affairs; we have been connectable out of this area of our public affairs; we have been centarkably the graving opportunities in such fields as North Sea taxathat and the

It is through such intrusion of peuple from the acodemic world ato the policy-maker's world that the influence of research, both in the social and in the other sciences, is most successfully brought to bear. is most successfully brought to bear. Those who are interested in open government should reflect that a university department to which one or two of the younger members have had recent experience to the distry or government is likely to be more effective in addressing its collection makes the content of the more effective in addressing its collection makes to be content or makes in the collection. cidlective mind to noticy issues, or

Ta use the unigic wird "resourch" to denote academic discussion of energy matters is not lust total but the mode of speech fashburshle in groat-giving circles. I was brought up at a time when the contribution of dons to policy matters was mode mainly by weiting great throughts in the privacy of their apprecias. great throughts in the privacy of their garrets. As time went on, the plethura of poper and documents because such that to do this sort of Job successfully a full-time secretary and a research assistant become as volumble and necessary tools of the trade as a typewriter of disturbance and unwadows when



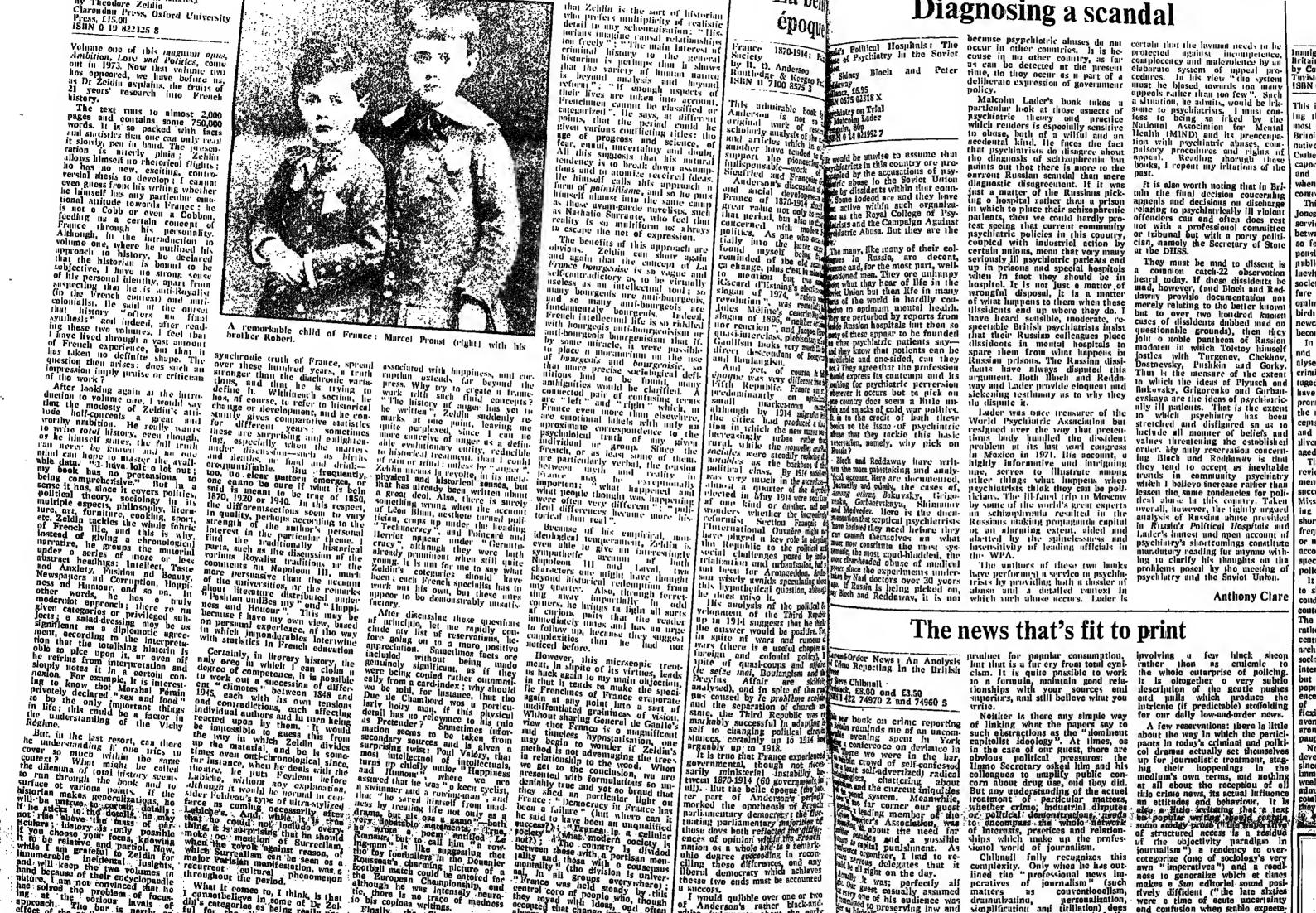
France 1848-1945, Volume II. Intellert, Tasto and Anxietz by Theodore Zehlia Clarendan Press, Oxford University Press, £15.00 ISBN 0-19-822125-8

Volume one of this magning opens, Ambition, Love and Politics, come out in 1973. Now that valuate two has opposed, we have before us, as Dr Zeidin explains, the fruits of 21 years' research into Prench history.

C 1

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8



that Zehlin is the sort of historian who prefers multiplicity of realistic detail to any schematisation: "Hisdetail in any schematisation: "Historians imagine causal relationships ton freely"; "The main interest of criminal history to the general historian is perlmps that it shows that the variety of human names is beyond analysis and heyond reform"; "If enough uspects of their lives are taken into account, Frenchmen cannot be classified or

insumed an praceful method. Nation in the continuous interest of the continuous interest in the second of the continuous interest in the continuous of focus in the continuous of focus and the continuous of focus in the continuous of focu

John Welghtman R. E. M. Irving

La bel

Diagnosing a scandal

because psychiatric almoses do not 1870-1914; First Political Hospitals: The consering the effect of Psychiatry in the Soviet of Psychiatry of

Welfare wrongs

when confronted with new and controversial demands.

This is a familiar theme but Miss Jones gnes on to argua that social services cmny exacerbate tensions between hunggrants and natives in so for as the nature of their responsibilities becomes a manter of nublic debote. This debate is

In such a context governments and odministrators may be poralysed. Not only does positire discrimination in foyour of disadvantaged and distinctive minorities have political repercussions, it also prompts awkword questions about the meaning of such hallowed concepts us equality of opportunity and equal treatment. Is cultural diversity to be telerated or encour-

These themes are discussed in a review of social policy development lu Britain. This is the least successful section of the book and Miss Jones's nervousness at attemptng such a broad sweep to so short o space is revealed by the frequent use of "perhaps", " may or may not" ond " arguably". Her accounts of the reintionship herween specific migrations and social polley are more illuminating.

It was the Irlsh immigrants' fate to show up the extremes of social conditions and the illustrations of contemporary statutory endeavour. The Jews against all the odds fared rather better. In the ulnotoouth century it was possible for the nrchitocts and administrators of social policy to act "In the best interests" of the voting populsca, but not necessarily in response to popular demands. With the insistence and help of tha Jowish Boerd of Gnardiens some surprisingly flexible policies were developed, sven in those most contentious arons, education end the relief of

significant of an uncoming spent in York and the careout influding should be structions as the "ideminent part of liking what the paners say to conference on deviance in the large structure of liking what the paners say to conference on deviance in the large structure of liking what the paners say to conference on deviance in the large structure of liking what the paners say to such electricity about the increase of our guest, there are obvious political pressures: the limit of the current influding to the current influding to the current influding to the said of political significance without parts of panel pundshment. As a structure of an another of particular matters, whether crime, industrial disputes of interests, practices and relationships and a pussible structured access is a residue of interests, practices and relationships to the day. The said of the structure of the control of the said of the s aronss, education end the relief of paupers.

Notwithstanding the massive developmente in social policy since the innerent century the immigrants from the New Commonweelth met far less confident administrators and, given the coalegue of problems before them, they had not still have good reason to lack confidence. When welfure

services are jeulously arized public properly there are mony different roices claiming the right to deflue their ends and means. When a welfare store has promised more welfare stole has promised more than it can deliver, in the absence of alternative routes to salvation its principles will be liercely defended. Any departure or mudification cannot safely be associated with the needs of a distinctive mhority, regarded by many as alien, even though its distinctive minority, regarded by many us alien, even though its interests may coincide with those of other groups. When minorities are divided on ethnic, political, class or generation lines the price of achieving consensus from such disharmony only be the adoption of the least controversial and least effective politicals.

In the loogest and most thought provoking section of the book Miss Jones reviews the cantions response of government to the arrival of ethnic udporbles. This has attemp public debote. This debate is lievitoble in the self-conscious societies which have produced welfare systems; and when the lieudy opilmism which surrounds their birds hos finded, orgaments about newcomers' claims to welfare become bitter.

In such a context governments in the innorties. This has attempted the indicate one hand, to assurage public opilulon by tighter limiting runtion controls, and on the other, to ded with the most blomat needs of thack people by modest, often disguised and therefore confused policies of positive discrimination. Miss Jones's sober conclusion is that British social policy is an inept instrument with which to tacklo sucinic conflict, particularly when this has conflict, partleulerly when this has racini overtones.

The author's case, though marred The author's case, though marred of these by wordiness and repetition, is a powerful one and those seriously concerned with social policy and race reletions should read this book. They will be chulinged and stimulated by her reflections on the potential, fallures and ochlavements of the social services and anti-discrimination legislation, nithough the evidence on which these reflections are based is at these reflections are limes thin.

But should we accept Mlss Jones's pessimism? I believe she makes too little of the association between social canditions and reclai and sacial tensions, thus thereting attention into the acceptance social policies. In acceptance was a stronger social policies. stronger social policies. In accepting her cogent occount of the problems of doveloping offective univeles in reduce inequality readers rulght be seduced into confusing problems with impossibilities. They might also believe, from the brief report of her survey into the responses of statutory services to Now Commonwoolth lumigrants, that the flaxible policies of some have meent successful delivery of sorvices. Most studies show this to be fur from true. She is somewhat confused on this point because she does not discuss the criterio for judging successions. cuss the critorio for judging successful social policy, norticularly when its gools are hard to dofine.

eoutious legislation to combat racial discrimination is jueffective. Withdiscrimination is ineffective. Without a greet struggle or political emberrossment a tougher low has been enected. This should encourage local and control government to depart from its hesitant stance in raca relations affairs. Fear and ite associated paralysis achieve nothing and encourage attack from all sides. Is there so much to be lost and so little galoed by bold initiatives? We do not know because they have not been tried. Juliet Cheetham

Parliamout has now accepted that

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countries, with

ndited by J. J. Anderson Munchester University Press, f8.50 ISBN 0-7190-0665-1 ISBN 0-7190-0665-1 English Verse 1300-1500 edited by John Burrow Longingn, £9.95 unil £4.50 ISBN 0-582-48367-0 and 48368-9

cussed briefly (THES, March 4) in its earllor form as part of an Everyman voluma, now appears separetely as a full scholarly odition, and deserves a boarty welcome. The first serious edition for over 50 years of the Gammin-pact's least known work, it offers a major con-tribution to our understanding af Middle English poorty. Anderson's text is strongly conservative; he succeeds in defending the mannsucreeds in deretting the many places script readings ut many places where other editors have been driven to emendation, while at 172 his new roading types, in place of functi, seems virtually certain.

Anderson's notes add enor-ownsty to our understanding of the poet's extremely difficult language. it would be impossible to mention here even a fair selection of his inany Ingenious and convincing Interpretations, but I um especially

tion of ppfofilon (643) as "unlifted in proyor" seems unlikely because of the difficulty of serving a picnic

if there is any general weakness among the many strengths of Anderson's commentery, it lies in a certain lack of sensitivity to the suggestiveness of the poer's language. gestlyonoss of the poer's language. It is mental breakdown and its ofter-language and vacsification, in which he remarks, far exomplo, on the poot's "striking readioass to use borrowad words in sensos and idioms from the original languages which are not attosted elaewhore in ME"; but it might hove been better to include in the introduction of general discussion of the worthis poot uses words. An editor's litorary-critical conception of his poet's anguage.

Initial mental breakdown and its ofter-language in sensor and lite included too:

Initial mental breakdown and its ofter-language in sensor and lite included too:

Initial mental breakdown and its ofter-language in sensor and enumny; early month in tween elegance and continuty; early month in tween elegance and enumny; early month in the included too:

Henryson is niproprintely rerognized the outstanding with 39 pages. Though Duobar oppears at less than the included of the metal breakdown and its ofter-language.

Henryson is niproprintely rerognized the outstanding with 39 pages. Though Duobar oppears at less than though the included of the metal breakdown and its ofter-language.

Henryson is niproprintely rerognized the outstanding with 39 pages. Though Duobar oppears at less than though the Included of the ween elegance and ecanismy; each month is tween elegance and ecanismy; each month is ofter-language. Since holf of each page, an average, is taken up with onnutation, it mental breakdown and its ofter-language.

Initial mental breakdown and its ofter-language. In sensor of the outstanding with 39 pages. Though the included too:

It was not at the ween elegance and ecanismy; each month is ofter-language. In sensor on the tween elegance on denumny; each month is ofter-language. In sensor on the tween elegance on denumny; each month is ofter-language. In language with the language with the ween and the exclusion of the ween and the exclusion of the exclusion of the cantrily have been a cantille tween closes and elegance on the tween elegance on the tween on

dion is bound to affect his task us conventional. The absence of the editor and commentator. Thus the Interpretation of welle gental (76) simply as "pagan wilfulness" surely neglects the soggestion of "noble" ostentation, is the product of a augments the soggestion of "noble" in gentul, connected with the common idea that under the New Law the gentiles became approximately is absent, except for the Control of
nion idea that under the New Law the gentiles became gentlemen frompare lines 1167-8 and 1257-8). In such cases—and indeed in general—it is starcely possible to drawn firm boundary between "editorial commentary" and "critical reading". Anderson stops short of any consideration of such tricky problems; but his achievement is truly impressive, and this book should immediately take its place alongside his corlier Patience as the smolard edition of a number poem. edition of a unifor poem. English Prese 1300-1500 is the first of a series of volumes, the Longman Annotated Anthologies of

English Verse, under the general editorship of Alastair Fowler. The

period it covers may well be the most difficult to unthologize, both because so much of the finest medieval vorse consists of poems too loog to be included complete ond because it inevitably requires heavy annotation. John Burrow offers o skillul solution to this double problom. He includes some above poems averaging from some shart poems, ranging from early lyrics to "The Hunting of interpretations, but I use especially interpretation of (1007), Displayed "was bruken" (1107), Displayed "was bruken" (1107), Displayed "was bruken" (1107), Displayed "was bruken" (1107), Displayed "was interpretation of roghly (1507), and chambre 'household' (1586). The Cawain-poet is represented by substantial passages from three of his four poems; Langland by Passus VI and XVIII from the Betat; Guver by the tale of Rosiphilee with its framing diologue; and the other half too? This muthology is not for beginners, who would many cases where a new interpretation of the other liand the explanation of of popolion (643) as "uplified in proyor" seems unlikely because

representative in terms of genre, it implies o proper response in terms of literary value.

Even more impressive than the selection of texts is their culting and annotation. Each text, while in its literory-historical rantext, and giving a concise survey of trends in interpretation. The detailed work that would be necessary to produce on independent edition. The onnotation of the extract from Winner and Vaster, for instance, unquestionably replaces, for the part of the poem included, the only previous scholarly edition.

ochrovement to creative response to oliterory source), six lyrics, and a continuous extract from Frogment VII of The Canterbury Tales, mode up of the Shipman's and Priuress's tales only their link. There are some spendial choices, ton, among less-well-known works: 2.36 lines of the ment that is oddressed to them. The base well-known works: 2.36 lines of the ment that is oddressed to them. The pages of English Perse 1.400-1500 less-well-known works: 2.36 lines of the ment that is oddressed to them. The pages of English Perse 1.400-1500 less-well-known works: 2.36 lines of the ment that is oddressed to be wosted on and learning were to be wosted on on the continuous extract from Frogment to misconceived venture. Such questions outside the page of the ment that is oddressed to be wosted on on the continuous extract from Frogment to misconceived venture. Such questions outside the page of th Winner out Wuster, and the part of Hocelevo's Complaine in which he describes with pointful houesty his mental breakdown and its oftermath.

Seoutish poetry is included too: Henryson is appropriately rerogalized as one of the outstanding is taken up with onnutation.

Commonplace or abstruse

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Visionary inwardness

William Wurdsworth, Poenes, vol 1 edited by John O. Hayden Penguin, f3.75 each

ISBN 0 14 042 211 0 aml 212 9

Wordsworth's means fell to pieces through use, and recently the ropy I replaced it with has begun to do the same. Others will have had n Even more impressive than the selection of texts is their culting and annotation. Each text, while normalized in spelling, has been the notes include manuscript variants where appropriate. Early text, too, is provided with a brief but packed introduction, setting it in its literory-historical ranges, and offers the same: it is much more extensive than Derek Roper's useful edition, reprinted last year, by Macdonald and Evans, of the Lariin interpretation. The detailed glossing and annotation is olways helpful and often original; and, in the case of texts which have nut heen recently edited, does not foll short of the amount and quality of work that would be processed to volunce, because the main introduc-tory prose is lucladed (it is perhaps a pity that the decally thought aut Essays on Epitapics is not, the early poens ore fully represented, the notes are althoughter fuller, and the

> Needloss to say, Professor Hayden lacked space for discussion of the sequence he adopts, but to reread the puems in consecutive urder is a major experience.

ils not on account des little-known poemi lite to oud tortured 1798 had arous, it is the air and the known int characterist file. The Baker's Care or the 1802 "Beggar's two of these remained which is the mid-twented or Rather. It is the mid-

Rather, It is the ma ole labour and scarce savious, no end up with products and Wurdsworth's kno the years when he a nnd before he relapsed in supplaining the paradox, one must lating enturies from the market mar me country depends on those few objection the categories of the country depends of those few objection to categories of world technology, the Wordsworth we all know the middle of the country of visionary (if intermines were among those ovailable. More world he found them in years shows that economists have leded, so far as I those complished the third of three, the publishers have been there have over-employmentally in priving set the cate of price—expenditly we have a price of the pric The publishers have be even there have over-emplay minded in pricing each will all the role of price—especially rately: attempts to salous "distortions" that make modern Wordsworth as a per the translation terliniques artificially been furnishmed and in the

Wordsworth as a pertinessaving terhniques artificially been foredoomed, and is scaled.

times some may feel temperature.

They will be unwise, logy is the result of technomics the rachy sunnessed designed by western Exercision which establish low western morkets, and is worth's reputation the main reason why development of later poets saw at his tone so little for the really Wall " of their doy.

John Bennier trade and technological relooment remain tied into the

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Tho donger of this book is equalled only by its charm, wit and learning, but the donger is the most delicinor of all, Here, available again in print, is that classic essay "Fluret libilionnatia" from the New States under the state of the solution of the solution of the state of the solution of the solution of the state of the solution of the solution of the state of the solution of the solutio seller's eatalogue-nuce seen, the first enveluge to be opened, the hand then puised over the telephone then you run a severe risk of being further infected with your frenzy, of enjoying your madness

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Brewer has been elected Dr R. E. M. Irving is lecturer in A. C. Spearing is lecturer in English of Emmanuel Cellege, politics at Edinburgh University at Cambridge and author of Critical English of Social studies at Oxford and thore of the Commission for Equality:

And the Commission for English of English at Edinburgh University in economics at Strainolyde University:

Though Clare works at the English of English o

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It is as such systems in white technical maximization, raries (as opposed to proceed the served thesis—that poor caunsle shelves af books) costs of such propriate technical forms of the server books. shelves in books cosses of slependence. Almaly shows his reasons of slependence. It cassing both personal set the state of slependence. It cassing both personal set the slependence in cassing both personal set the slependence in cassing both personal set the slependence. It is such as the slependence in the slependence in cassing both personal set the slependence in cassing both personal set the slependence. It is such as the slependence in the s because of "dependence"-

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This book is fine re-most accomplished sche homanity never dried to One's only rogret is that ing, usefulness and offored by this book is serva to commemorate his

Types of technology

Siz Adodosy pad Underdevelopment 1 1 Frances Stewart 2 Majorit Stewart 2 Majorit Stewart 6 St 0313 19510 8 the rich world—is a requirement far a change in relative prices.

Surely, If anylonly "determines" mediant-run roral technology, it is not the western multinational, nor the allegedly specielin and pricesetting consumer tof products or terhulques), but rather the poor country's own urban elite? As for the longer run, does not the history of biology suggest that great basic science (such as Mendel's) may determine the history of agriculture, largely independent of western multinationals, Asian or African pressure politics, and prire signals ulike? Certainly the wide range of choice

within existing technology (however unsolisfoctory), revealed by Mrs Stewart's excellent review of the empirical more rial, scens to justify ilie economists who have emphasized the determinants of such choice. Mrs Stewart, in places, seems to deny that this is an important Issue, possibly because rendencies to large scale might render the labour-intensive methods inappropri-nte. Yet in agriculture—which engages 70 per cent of the third world's workers—such rendencies are dubious.

ment remain tied into the the improvement is possible; inthe improvement is possible; inthe impropriate techniques, wedded to
impropriate techniques, wedded to
impropriate products, create
includes, and socioecunomic includes that downward, new techniques
are research in conjunction with
new products, and drive and old products alike,
because the large research inputs
lead to methods, and outputs their

shift products up-marker; and new and old techniques ran be, and often are, utixed even within they plots. Even some products rated mainly by the well-off in pour

day and given to decision the division of income worker, landlords, capital flavor surely the care worker, landlords, capital flavor surely the care worker, landlords, capital flavor surely the care worker and spirit surely the care workers and surely the care workers and surely the care workers and surely the care workers that no district theory of interest and spirit surely the care workers and surely the care workers have a surely the care workers that no district the product of inappropriate technology by pour countries and foundation. The entire that no much scarce savings to leave emangle for the surely that a major of the countries, that no much state product that no much state product that no more district. This is a continuate small lusiness to relevose that no more district. This is a continuate small lusiness to relevose that no more district. This is a continuate small lusiness to relevose that no more district. This is a continuate small lusiness to relevose that no more required to the countries that noise to the product state that noise to the product state that noise to the product state that noise to the countries. This is a continuate small lusiness to relevose that the major that noise to the product state that noise to the product state that noise to the case of Latin America and ludia, now over-tellant respectively under the countries. This is a continuate small lusiness to relevose that noise to the case of Latin America and ludia, now over-tellant respectively under the countries that noise to the case of Latin America and ludia, now over-tellant respectively and the timing of activities into the case of Latin America and ludia, now over-tellant respectively and the timing of activities into the case of Latin America and ludia, now over-tellant respectively and the timing of activities into the case of Latin America and ludia, now over-tellant respectively and the timing of activities into the case of Latin America and ludi

could well reduce available could determined by the researchers of work. It is higher major rand more productice and attractive work) per person—not necessarily per worker—that third would farm ing needs.

30000

The discussion of technologies for employment is weak in analysis of the vast peasant-serior, largely because it underplays the factors preventing agriculturists from utilizing their own potential labour supply. These factors range from nullernatrition through seasonality to artificially depressed torm prices. Emphasis no conventional "employment", to the neglett of labour utilization, prevents must analysts—including Mrs Stewart— from realizing that mini-formers need new terholiques that car-ringage or perotit productive work, while reducing calonic effort: wheelbarritys, rotary weetlers, com-duits for drinking-water, even creches. Mrs Stewart argues that imported

technology hrings "technological dependence" which "contributes to the lack of an effertive local scientific and terhoical capacity . . inhibiting learning-by-loing " by downgrading loral research institutions. Challenges, however, the sumetimes produce restonses I Business, government, science and "foreigners" are none of them monolithic. Bits of each establishment—us imported inappropriateness becomes costlier to the importing country—find it pays them to develop alternatives. Hence (as in develop alternatives. Hence (as in A. C. Sutton's account) the USSR's massive, planned use of western technology in the 1920s, permitting technology in the 1920s, personal subsequent independent developdigenization" of new rice technology in 1911-40; India's blossoming, imligenous and nonconstant ing, indigenous and appropriate re-search empacity in many fields, from leather processing to hambon tubewells; and the Evonson-Kisley dura showing that a poor enuntry's ability to profitality use imported form techniques depends on its domestic research outlays. In new levting this evidence, Mrs Stewart averdoes the gloom.

Yet the crude casts of imparted ret thu critic casts or impured technology—likely in be "inte-third of Third World expuriencials" by 1980, and intlicially languaged by big companies four of "allution of monupoly power as a result of parting with the technology"—are alacular company. So is lugy "-are alarming enaugh. So is tries who gain fruot imppropriate argues powerfully that freu trode expart-promation and import-substi-tution—in increasing order of dantage-push page countries into dependence on innuprupriate in parted technologies.

Her suggested oltornative is Smith-South trade "—which she would encourage by a Third World clearing house on the lluca of the European Payments Union (und li other, less pluusible proposits). This is interesting, and could usefully have been illustrated by a study of the burgeoning trade he tween Indio and East Africa, How ween Inilio and East Africa. However, there are real problems. Alany pour countries will far many decoiles export similar products. Marcuver, relatively advanced poor countries may feel that concentration in South-South exchanges would capted event appropriate to expand trade with the "advanced" west, rather than the relatively "southern" Comecon countries.

Rich and poor

Trade and Developing Countries by Nathryn Mortan and Peter Fulloch Croom Helm, 19,95 and 14,50 ISBN II 83664 303-3 and 414-5

A few years ago the so-called Green and while being sympathetic to the Revolution was hetabled as a major headthermal in the reference wash. reakthrough in the economic protelineakthrough in the economic provi-lens of many developing construes. Like that for foreign aid before its much of the optimism was mis-aboved. The economic problems of in the industrialized countries for a into another "solution": the New International Economic Order

as incontrol of the world remains as incorporation with the Third World,
except in those commodities which
are limitable in supply and not in
the control of the rich countries. (NIEO). With the NIEO the intention is

means run be soen in the dramatic ing countries; they can diversify rise in oil prices under the OPEC out of one crop exports by selection cartel. This example, has been so in alternatives and they run impurclear to both sides that the goor the riri countries wish to avoid it or, at least, minimize its impact.

As with old policy proposals it is neressary to begin with a great deal of information and informed com-ment on the issues before deciding All these issues are discussed by either on their relevance or on their prartirebility. Murton and Tulluch have produced an excellent intro-duction to the content of the developed world. All these issues are discussed by Morton and Tulluch, backed with extensive evidence, including finon-cial implications. Their conclusion that greater porticipation in world. duction to the relevance of trade for developing countries and how the NIEO might energe over the next few years.

It is by no means intended to be patronizing to suggest that their excellent book is written with the

tome elegance and depth as the background briefs of The Economist. Their chapters are readly understondable without being drowned by the normal coordising collection of statistics. They get to the main issues of each important the main issues of each important the

much of the world remains as in, and west) erect barriers to trad-

Some developing countries are setting up minimulacturing expacity to effect the transfer of resources but face resistance once they entropy the developing world by raising wise in fined, harriers to growth the prires of exparts to the indus-urbilized countries above easts of Ou a global basis the problem looks production and so-called "world beyond ireatment but as the counprices" in the commodity markets
The "surplus" above would price
will finance development. The most
abvious example of what the NIEO substitute in commodities that they depend on but which they can pro-

On the global senie, nogotiations to iostiuntionalize the NIEO through commodity agreements, stockpiles that greater porticipation in work among others, is sound. Whether another matter.

Gavin Kennedy

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Class Relations and the Madern Factory THEO NICHOLS and HUW BEYNON

Horo in this picture of a glant British chemical complex, "Chemco", campiled after three yours' first-hand, study by two sociologists, we are vividly reminded of how remone we politicians, economists and theorists ore from life as a rouly is an the factory floar. This hook leaves a angular realisation of the way madern industry alchumanises so many of its workers, wastes their skills, and allenates them from the maders who run our economy.—Barbara Castle, Guardian E5.75, paper £2.75

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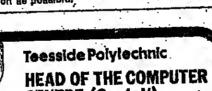
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Operational Research and Statistical Method expelled to at HNO and underminduate tevel. Further details and a larme, may be obtained from The Deputy Director's Crawe+Atlager College of Higher Edwestion, Aleager. Tram 617 2HL. Cleaning dela for receipt of complated to forms 1st October. 1977.



Higher Education RESEARCH ASSISTANT IN ECONOMICS

Paquired to work on a project investigating the economic affects of the flation on maritima marketa. Applicants should be seconomica graduatas at the come knowledge of with some knowledge of eletiatical mathods plus Ideally, some com exparience. The post le axpanence, the boat a leneble for one year, from 1st January, 1878. Setery: adcording to age: and: expanence 23,799 to 25,112 p.a. inc. 23,799 to 26,112 p.a. Inc.
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College of Higher Education, St. Mary's Road.
London W5 6RF.
Closing date: 16th Septamber, 1877,

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Colleges of Further Education

Bournemouth and Poole College of Further Education

As a result of the amalgametion of the previously separete colleges at Bournemouth and Poole, two Head of Department vacancies occur on Surnham Grade IV, 26,750 to 27,632, plue 2492 supplement per

annum. Hasd el Department ef Susinass Studies—Sournemouth Thia is one of two Business Studies departments and is concerned with courses located in buildings in the le concerned with courses located in buildings in the eastern part of the conurbation. Courses ere conducted up to end including OND Susiness Studies, a wide range of Secretarial Courses Including Advanced Secretarial, and Hairdreesing Courses et ell levels. Applicants must be graduates or graduate equivalents with teaching experience, abla to demonstrate an ability to control a team of stall and findertake course development work. Priority will be given to candidates whe have also held poellions of responsibility in commerce or industry.

whe have elso held positions of responsibility in commerce or industry. Heed of Department of Technicish Studies. This will be new department and the Haed will be responsible for the development of Engineering Technician Courses on Poola and Bournemouth elias and for some Creft Courses in instrumentation, Radio and TV, as well as providing servicing for some units for TEC courses in Construction and Science. The post is a perticularly vitel one end applicante must be graduete engineers with refevant exparience in industry and a proven ability in adjuction as a loturer and course designer.

Application forms and further details may be obtained from the Principal, Sournemouth and Poole Colfage of Further Education, North Road. Poole, Dorsel, SH14 OLS. Tafaphone: Parkstone 747600.

Completed forms must be returned by 30th Saptember, 1977.
The appointments will linke effect from 1st Jennary, 1978.

SCOTTISH COLLEGE OF TEXTILES

Department of Management Studies

LECTURER in

ACCOUNTING (with Law)

Applications are invited from persons with an appropriete Honoure Degree and/or professional quatification who will be required to lecture to SHND, Degree and Post-Degree level students, easist in the preparation of CNAA programmos and contribute to Departmental research activities. Adventageous to have had lacturing experience. Salary Scale: Lecturar A. £3,695 to £7,006 (bar of

Application forms aveilable from Head of Departmen of Management Studies, Scotlish College of Textifes, Gaisehiels, Selkirkshire, TD1 3HF, io be returned completed nof feter than September 20, 1977. Further particulars: evellable en application. Telephone

Dorset institute of Higher Education and Dorset County Council Social Services Department Joint Appointment

Principal Lecturer in Social Work

£5,940-£6,642 p.s. plus £492 Supplement

Applications ere invited lor this post from pareone with appropriate qualifications end experience: (1) to be responsible in the institute for the education

and treining in scelal work.

(2) to pion and develop courses in close co-operation with the Social Sarvices Department.

(3) to work in the Training Section of the Social

Services Department.

lo selection and manage, in the Institute, an Education and Treining Unit lot Sould Work.

Further delaits and application form from The Director, Dotset institute of Higher Education, Wallisdown Read, Wallisdown BH12 538. Tel. Beurnemouth (9292) 524111. Closing dele fer applications 28. Septembar,

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Colleges of Education

BOLTON COLLEFGE OF EDUCATION (TECHNICAL)

SENIOR LECTURER IN EDUCATION MANAGEMENT **ADMINISTRATION**

Applications are invited for the above poet from persons with good ecedemic quellications in alliher Education Management or Educational Administration. Ability to offer Declaion Making Theory within Education Management courses and a capacity to promote Staff Development trillatives within the Region would be advantageous. The appointes will be expected to shere the responsi-billy for the teaching of management and administrative studies in aducation on established in-service B.Ed (Hons) and Advenced Diploma courses and envisaged M.Ed.

Salary : Senior Lecturer Scela.

Forme of application and turther details may be obtained from the Sanior Administrative Officer, Botton College of Education (Technical), Chedwick Street, Solton SL2 1JW, Tel. 0204 22131, to whom completed torms should be returned by 20th September, 1977.

Research

LONDON, W.t THE POLYTERING OF SCHOOL OF THE STRIAL BUILDIES AND TOSINESS STUDIES

HUSEAUCH ASSISTANT

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Colleges and Institutes of Technology

DUNDEE COLLEGE OF TECHNOLOGY

HEAD OF DEPARTMENT OF CIVIL ENGINEERING

The Colfage is e Scottlah centrel Institution with e sub-The Colfage is a Socillan centrel institution with a substantiel end growing renge of degree and diploma courses. The depertment of otivil angineering le responsible tor, eldegree validated by CNAA and provides also a higher national certificate course, together with various apecialistic ehort courses. The person appointed may be atligible tor a protessorable and applicants should have appropriate ecademic quelifications, experience of teaching at degree level and relevent industrial end/or research experience, together with a proven record of menagerial ability. The salary is £6,910 (et present under raviewi.

Further particulers and application form obtainable from the Principel, Dundes College of Technology, Sell Street, Dundes DD1 1HG, to whom completed application forms about be returned by 28 September 1977.

Announcements

UNIVERSIT YOF SUSSEX Cenfre for Continuing Education

UNIVERSITY OF LONDON'. .

Depsiment of Extre-Mural Studies

SHAKESPEARE

16-18 SEPTEMBER 1977 Some vacencies—sppty immediately—Fee £20,50 Incl. vielt to Chiohester's Julius Ceeser—CCE, EDS, The University, Falmer, Srighton, Tel: Brighton 88768, ext. 888.

Courses

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NEW COURSES

(Untversity of London) TUTOR: JOHN HERON, Assistant Director (Madical

HUMANIBTIC MEDICINE, On medicina and the whole parson, 17 & 18 October, 1977, £18. DOCTOR AS EDUCATOR, On Itaalth education, 1 Novem ber. 1977, £2.

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For detells of these end other courses write to: Mre Elva Mecklin British Postgreduats Medicel Federation (University of London) 33 Millman Street, London WC1 3EJ

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Oagrass of M.9d. and M.Phil. Applications are ipvited from suitably qualified passons for the above courses a verilable both part-lime and full-lima. Candidatan for the M.Ed. are required to study four options from a wide range embracing aduogatopat psychology, curriculum inngveilon, acclology of education and issues in aduosation on a suesses in aduosation considered from a historial comparative of philosophieducation and issues in aducalon considered from a historical standpoint. There are
opportunities for those who
wish to spaciolise in mathematica, scinnce oducation, curriculum illegry and development, adult aducation, or inthe use of quantilistive methods
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live within assy investing disstance of Notlingham as required
its and tutorials is required. The
decise of M.Phil. is a reagandegree and the candidate is
required to submit a thesis on
subject of his own choosing,
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A limited number ol SSRC quois averda will be aveilable to succeedul applicants for elihar ol the above degrees.

Puither information end forms

Colleges of Technology

CITY OF WANEFIELD MITTHO POLITAN DISTRICT EOUCATIONAL TECHNOLOGY

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General Vacancies

Royal Society of Arts **SECRETARY** TO THE EXAMINATIONS ROARD c.E10,000

Founded in 1754, the Royal Society of Arts operers as a lielson body in a wide fiald of oppliad arts ond sciences. The Exeminations Board is responsible for the Society's role as a major exemining body principally in business studies, including accretatial skills, and lenguages. The level of examinations rougas from a selementory to post-graduate.

and lenguages. The level of examinations rengas from elemantery to post-gradunte.

The Secretary (Chief Officer) of the Examinations Board will be besed in Loodon and will be responsible for the edministration and continued development of all especies of the Society's examination both at home and oversees. He/she will be assisted by a staff of epproximately 60 studied in London and Orpington.

The successful candidate will probably have had apperience in a post of senior responsibility connected with addression but proven administrative/moungerial ability in a suitably reloted field could be regarded as appelled in the content of the country of the c

equally important.

Further details may be obtained from Christopher Lucos, Secretary, The Rought Society of Arts, 6-8 John Adam Street, London WC2N 6EZ, tel.: 01-839 2366. Applications for the post, marked "confidential", should errive not leter than September 30.

General Vacancies continued

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Salary within range £9,182-£10,235

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Details and application forms from the Education Officer (EO[Estab 2A]1) Addington Street Annaxe, The County Hall, London SEI 7PB, Please enclose a stamped addressed fooless and the foolscap envelope. Forms to be returned by 26 September 1977.

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27,844-26,268 (plus Salery Suppliments)

Candidelae ahould possess an eppropries ecademic qualification and have had autable experience of teaching in Further Education,

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Ganaraf coef Government conditions of service apply including where appropriate, furniture ramoval axpanses, storage costs, and fodging allowance. Commencing ealary within the acele, daterminable et interview.

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required inimediately for short intensive courses for business and professional people. Applications are litylted for permanent positions from teachers will e minimum of 2 years relevent experience. Qualificeflons in TEFL and business background or interest would be an advantage. Sterling salery from £3,480-£4.440.

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Sliuoted within the matropolitan aree of Adelaide, prepares etudente at lertiary level for the heelth and teaching orofes-alone. The nearby Flinders Medical Centre end Flindere University School of Medicine co-operate with Sturt in running the various Heelth Professione courses.

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Two Lecturer apointments, which may be negotiated either for a tixed term contract o fitwo or three years or e tenureble Salary renge, Lecturer III (A\$12,346) to Lecturer I (A\$16,864)

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Lecturer to laach and supervise practical cleases in Biological Sciences in the Diploma of Apiled Bolance (Nursing) programme, and to easiel with tutoring and practical cleases in Applicants ehould hold at least a baccalaureate degree, Applicants should have previous teaching Anatomy or Human Physiology. Some previous teaching experience is assential. A leaching quelification end/or eligibility for registration as a nurse in South Australia would be an advantage.

lage.
Closing dete for application September 30, 1977. Appointees will be expected to take up duties on January 1, 1978, or as soon as possible thereafter.
Applicants should forward e curriculum vitae end any other relevant information together with names and addresses of three raisrees who have been requested to send confidential statements directly to the College.
Applications and Iquirie should be addressed to the Academic Secretary, Blurt College of Advanced Education, Sturt Road, Bedford Park, South Australia 8942. Tel. (08) 276 80861.

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Overseas

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APPLIED TO NURBING (NG2/78)
Lecturer to teach principally in the Social and Schevioural
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Applicente should hold e degree with a mejor component of Applicente should hold e degree with a mejor component of Sociology or Social Anthropology, preferably epplied in a heelth profession erae. Teaching experience is essential quelifications in teeching and/or nursing would be en adven-

a conferred and sensor process processes

MIDOLESEX Loclurer 1 -- \$14.345 -- \$16.420 per annum. Loclurer 1 -- \$15,809 -- \$10,804 per ornum. Applications class Monday, 10th October, 1977.

QUALIFICATIONS:

Application forms and fulling datalic are available from the Ading Ragialrin, Kelvin Orove Vollage of Advanced Education, Victoria Park Road, Kelvin Orove, Orisbane, Oucansiand, Australia 4059. n. W. Srownile, Auting Registrar.

KELVIN GROVE COLLEGE OF ADVANCED EDUCATION

Brisbane, Australia LECTURER IN

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Tiris College is sooking a lacturer who will be involved in the trining at residential carn workers. These students are being prepared to work in a variety of residential care lacilities including those provided for the intellectually handicapped. The socially natically detailed anotherally disturbed continuing and the agod. Those include anotherally disturbed continuing family group homes and licelate, day care centres and demiciary emphorical agencies.

The nuccessful applicant it to especial to locking in the theory and principle of residential core and to supervise students in their

A degree (pinterably at Master's level or higher) in social work the spend sciences with major studies in arous relevant to

Experience in a veriety of rosidontial settings including:
 (s) experience to planning and implementing changes in rosidential care, and
 (b) involvement in rosident training programme.

Exportence in training para professionate and demonstrated ability to supervise audams in practicum placementa.

5. Albidy to listse effortively with community resource agoncles

The successful applicants will be required to commence duly early in January, 1878.

Knowledge of undernlanding of the piece of realdouting gere

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BOUTHAMPTON or special teaching pro THE UNIVERSITY leot of eight months oon

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For further detaile and application form: Tel. Miee Westmorefend, Row 4111, General Superin tendence Co. Ltd., Orchard Lea, Winkfield, nr. Windson

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